

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

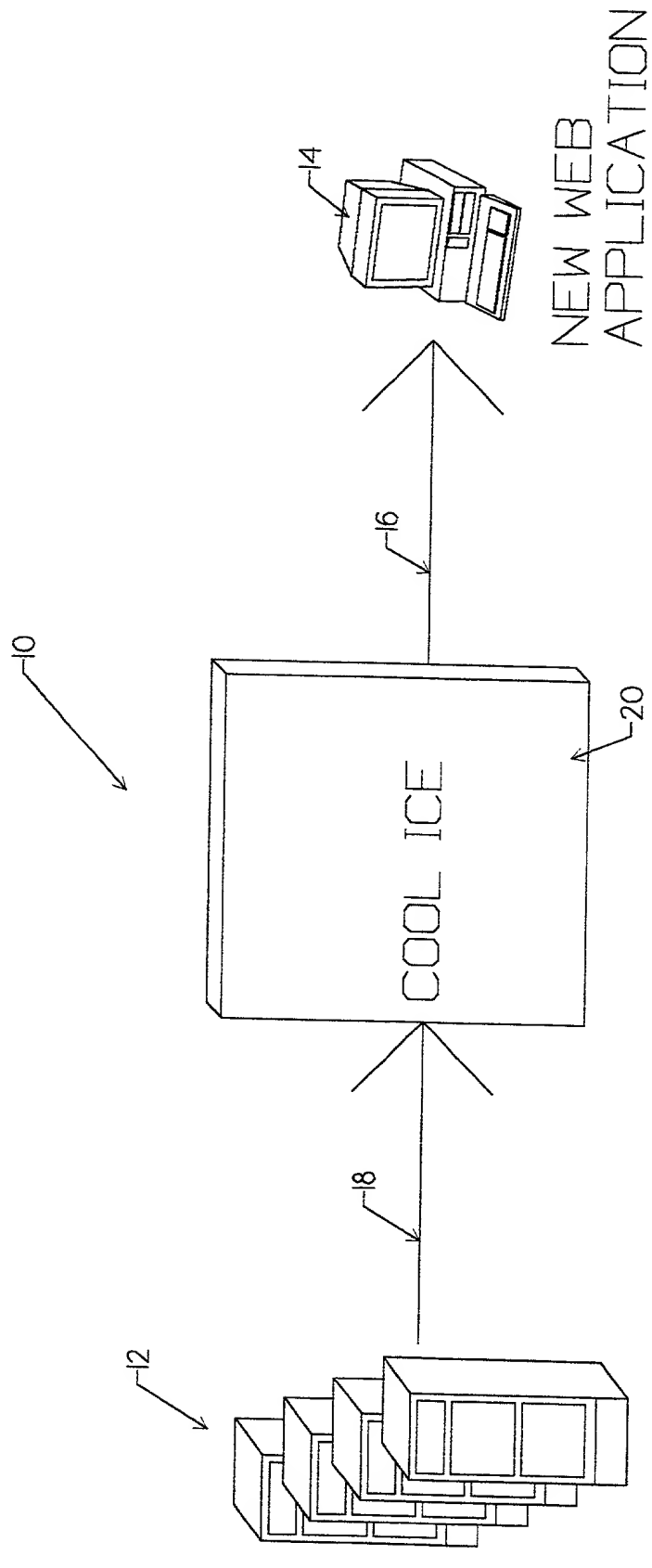


FIG. 1

FIG. 2 is a block diagram of a system 22 for providing services to a user. The system 22 includes a user interface 24, a security module 26, and a service module 28. The user interface 24 is connected to the security module 26, which is connected to the service module 28. The security module 26 includes three security profiles: Security Profile 1, Security Profile 2, and Security Profile 3. Each security profile is associated with a specific service: Service A, Service B, and Service C. The service module 28 is connected to a network 40, which is connected to a server 42. The server 42 is connected to a database 44.

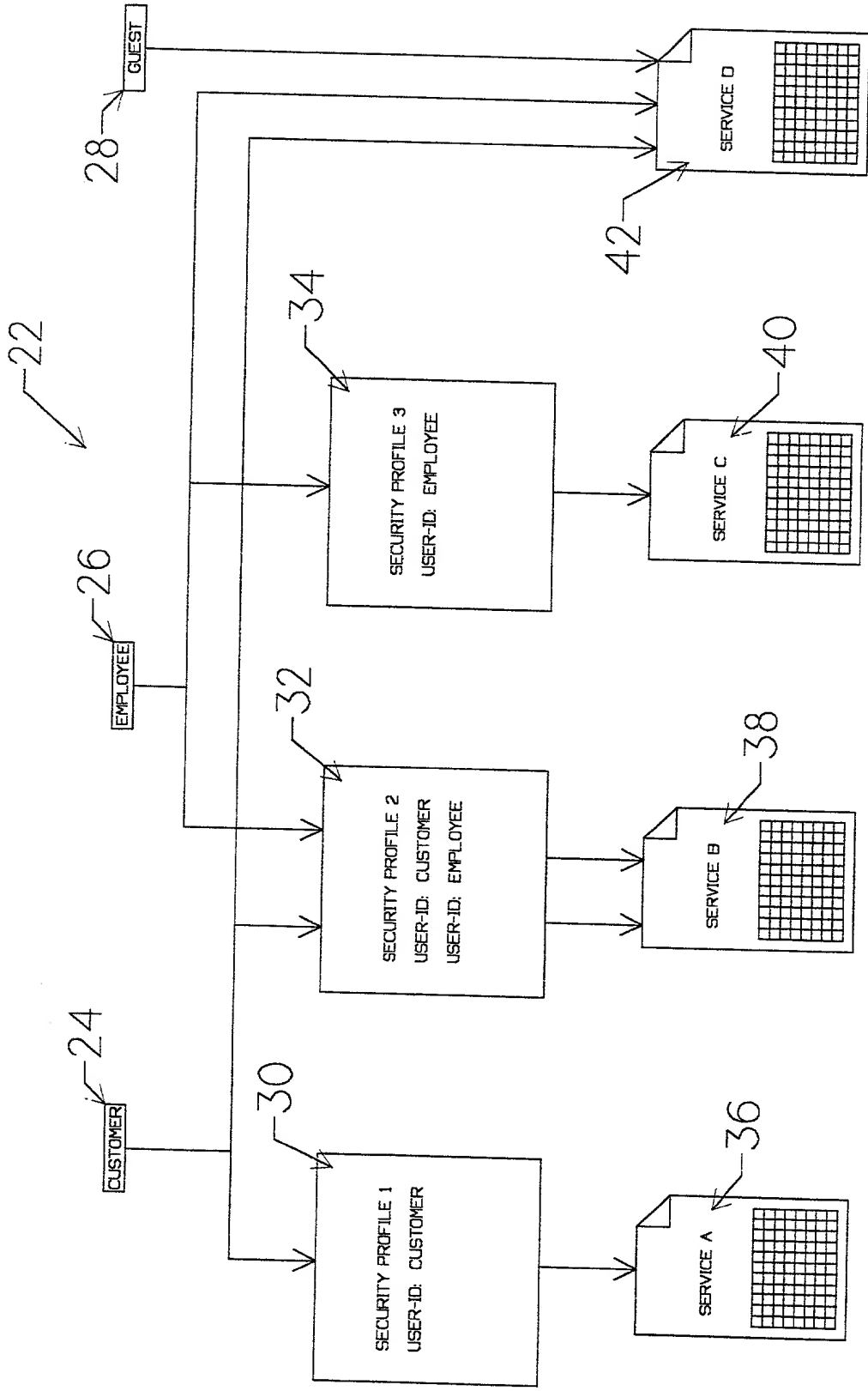


FIG. 2

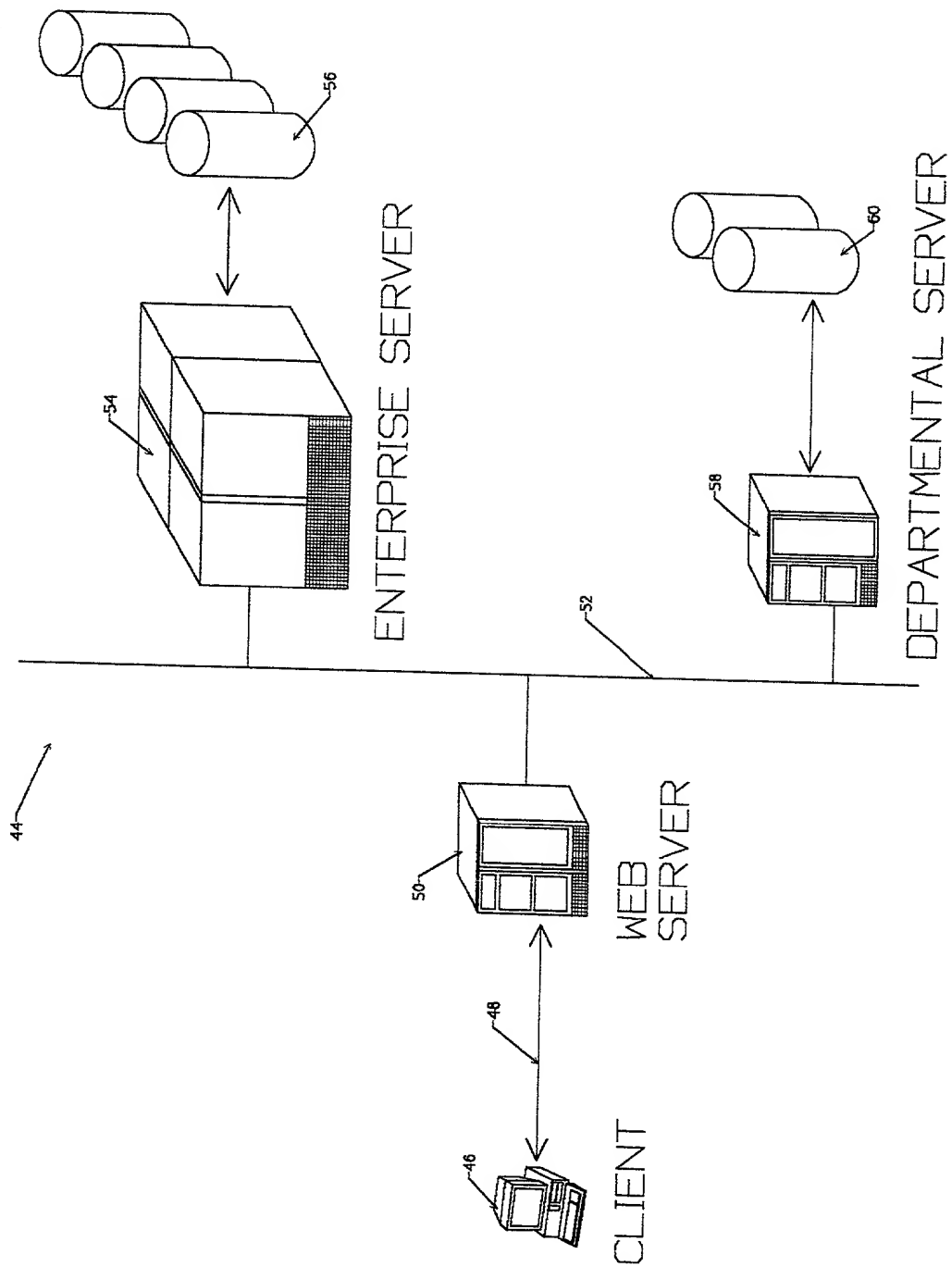


FIG. 3

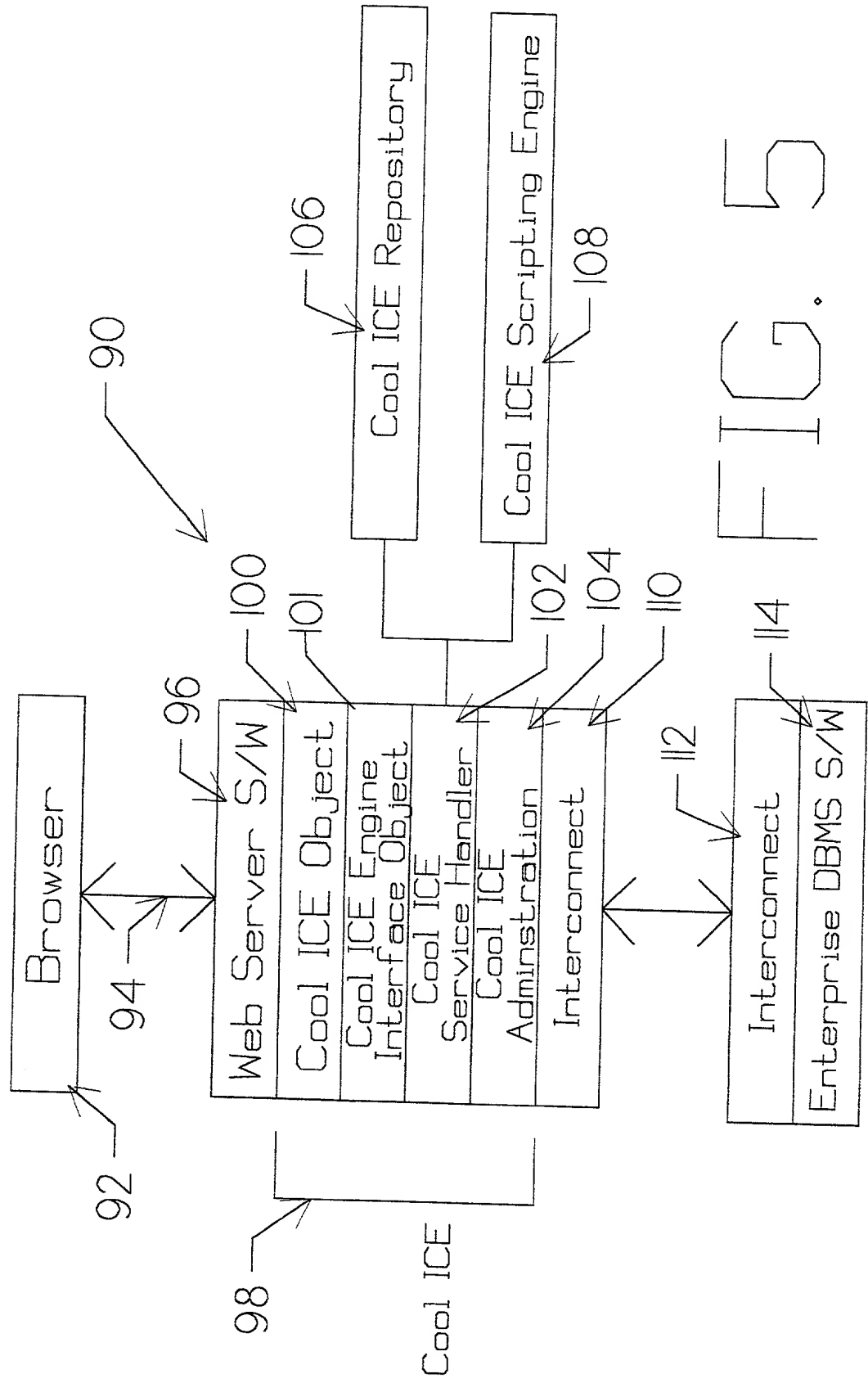


FIG. 5

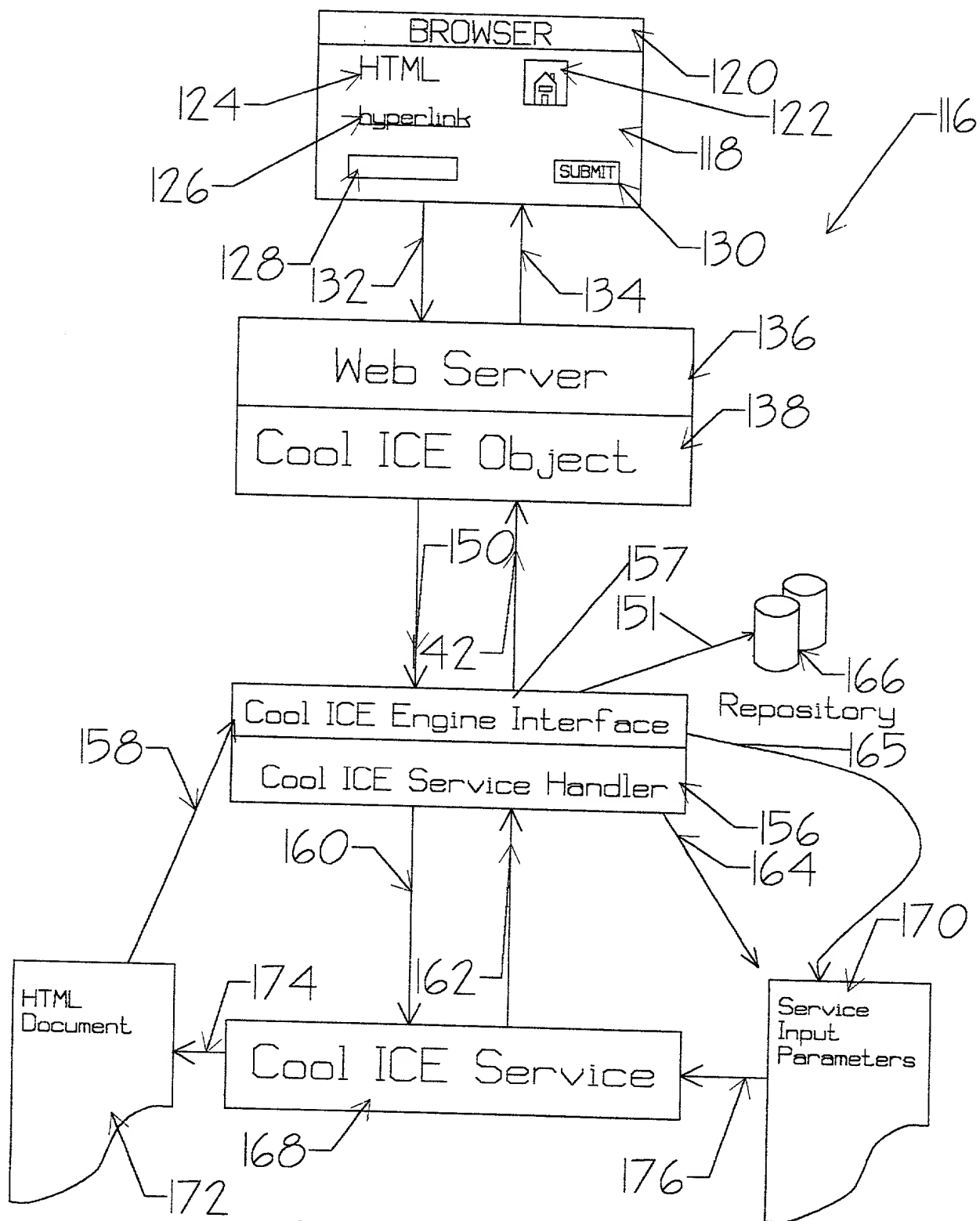


FIG. 6

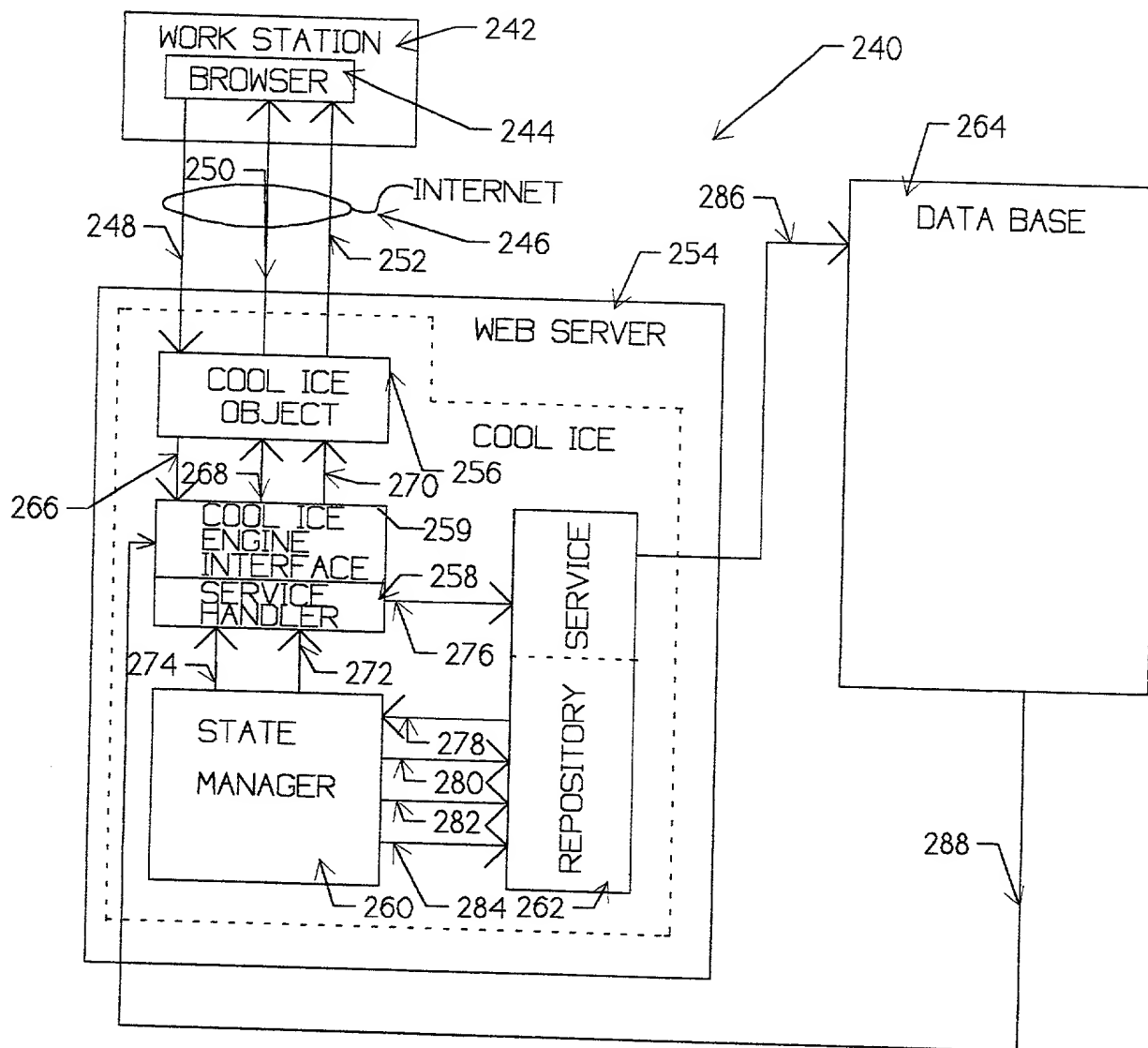


FIG. 9.

FIG. 10 is a block diagram of a system architecture. The diagram shows a WORKSTATION (440) containing a WEB BROWSER (444). The WORKSTATION is connected to a WEB SERVER (454) via a network (446). The WEB SERVER contains a COOL ICE OBJECT (462), a COOL ICE ENGINE INTERFACE (471), and a SERVICE HANDLER (472). The COOL ICE OBJECT is connected to the COOL ICE ENGINE INTERFACE via a network (464). The COOL ICE ENGINE INTERFACE is connected to the SERVICE HANDLER via a network (466). The SERVICE HANDLER is connected to a REPOSITORY (482) via a network (478). The REPOSITORY contains a COOL ICE SERVICE (480). The REPOSITORY is connected to a REMOTE DATABASE (456) via a network (460). The REMOTE DATABASE is connected to the SERVICE HANDLER via a network (458).

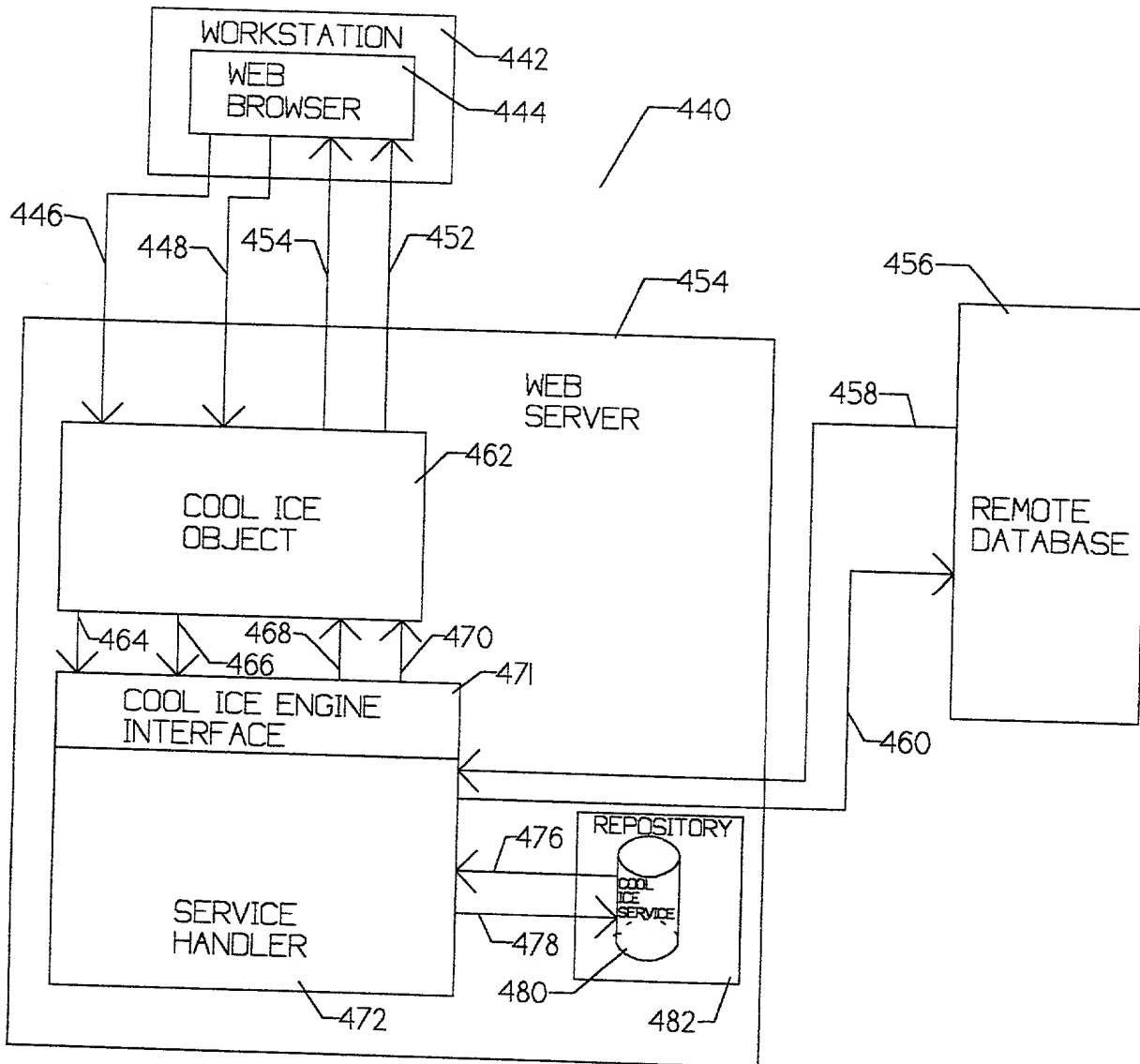


FIG. 10

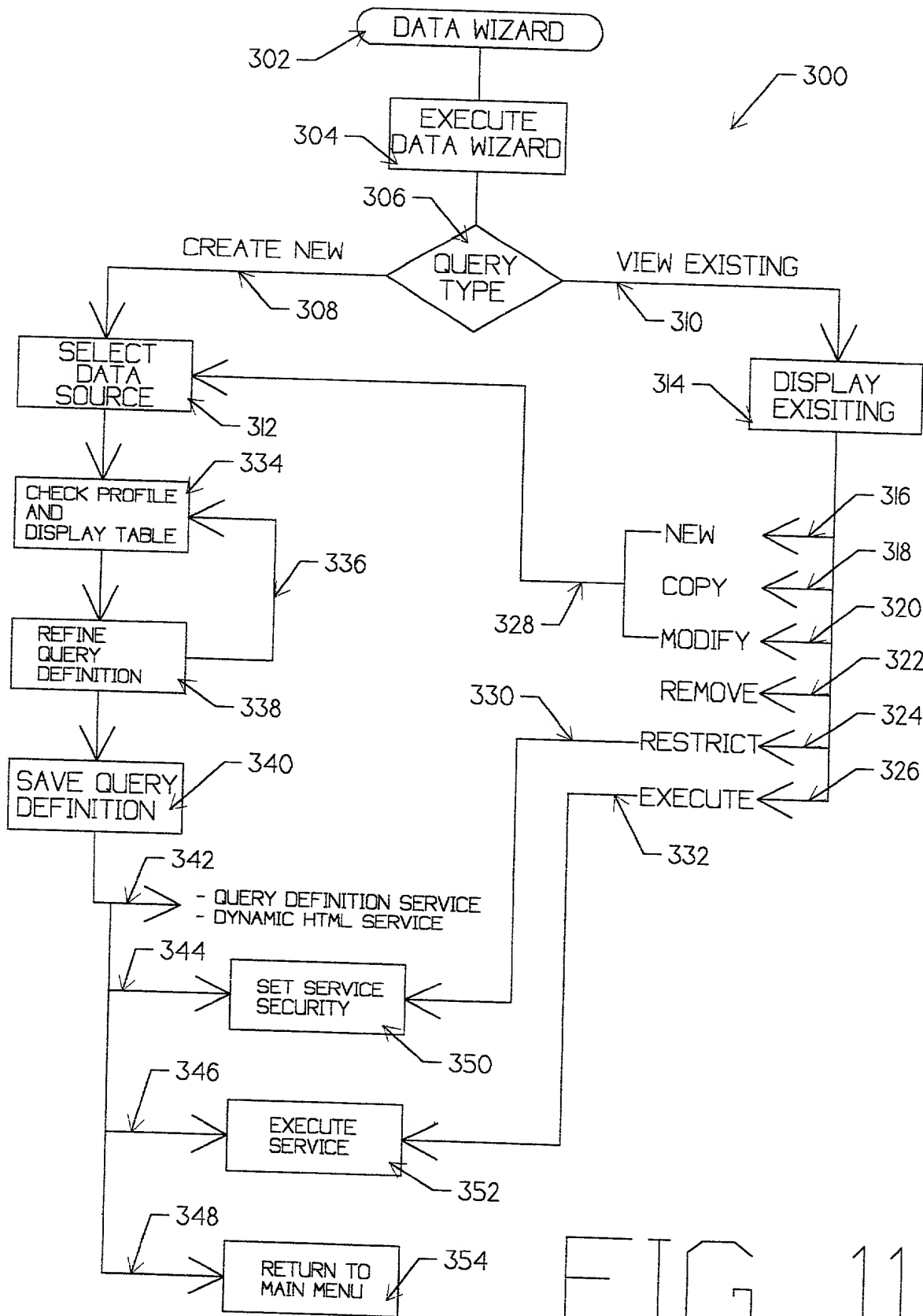


FIG. 11

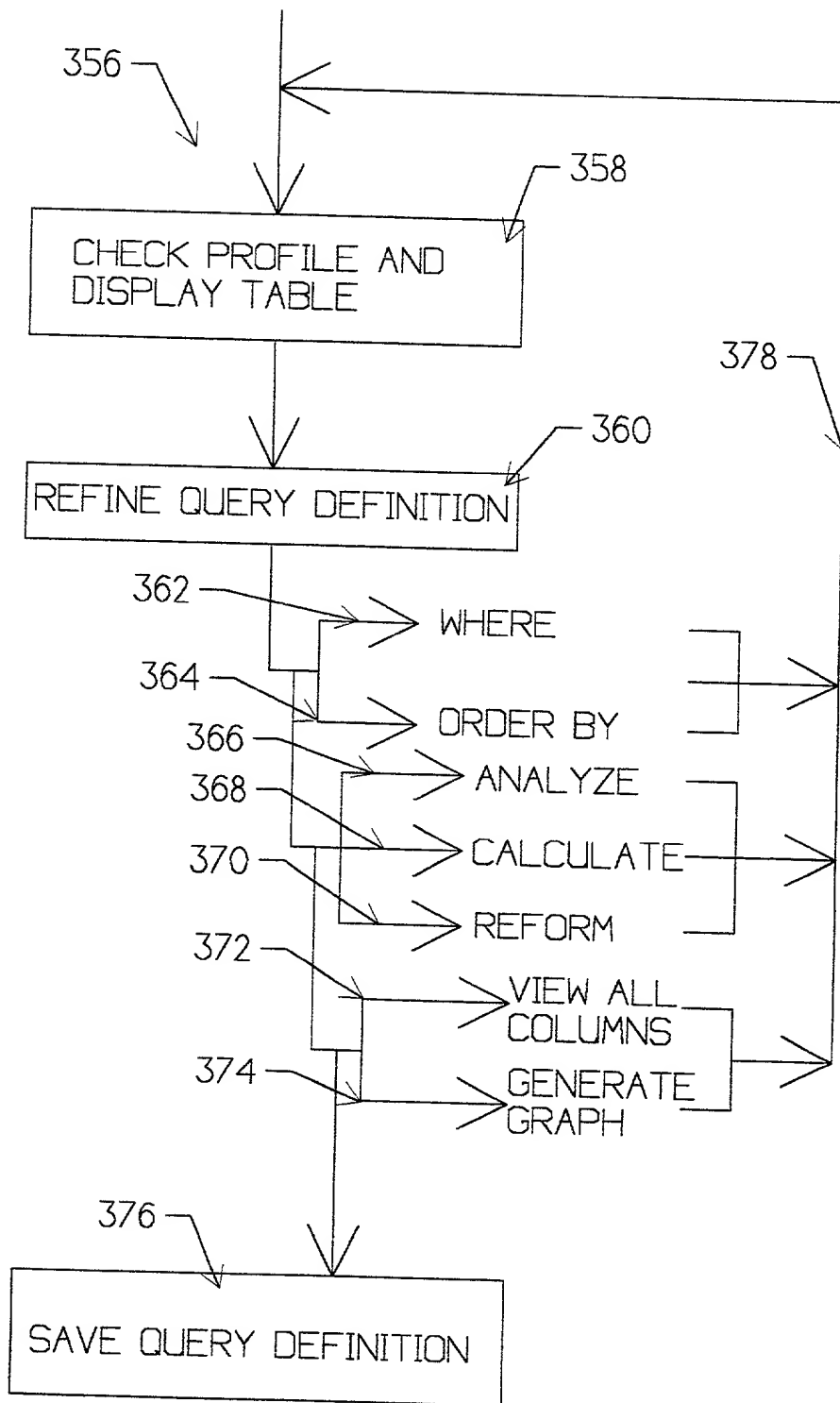


FIG. 12

FIG. 14 is a block diagram of a system architecture. The diagram shows a WORKSTATION (394) at the top, containing a WEB BROWSER (396). The WORKSTATION is connected to a WEB SERVER (400) via a dashed line (398). The WEB SERVER contains a SERVICE HANDLER (402) and a DATA WIZARD (420). The DATA WIZARD is connected to an ICE ADMIN (414) and a COOL ICE ENGINE (418) via dashed lines (406, 408, 410, 412). The ICE ADMIN is connected to a REPOSITORY (430) via a dashed line (416). The REPOSITORY contains an SQL database (436). The COOL ICE ENGINE is connected to a REMOTE DATABASE (422) via a dashed line (418). The COOL ICE ENGINE is also connected to the REMOTE DATABASE via a solid line (424). The COOL ICE ENGINE is connected to the REMOTE DATABASE via a solid line (426). The COOL ICE ENGINE is connected to the REMOTE DATABASE via a solid line (428). The COOL ICE ENGINE is connected to the REMOTE DATABASE via a solid line (432). The COOL ICE ENGINE is connected to the REMOTE DATABASE via a solid line (434). The COOL ICE ENGINE is connected to the REMOTE DATABASE via a solid line (438).

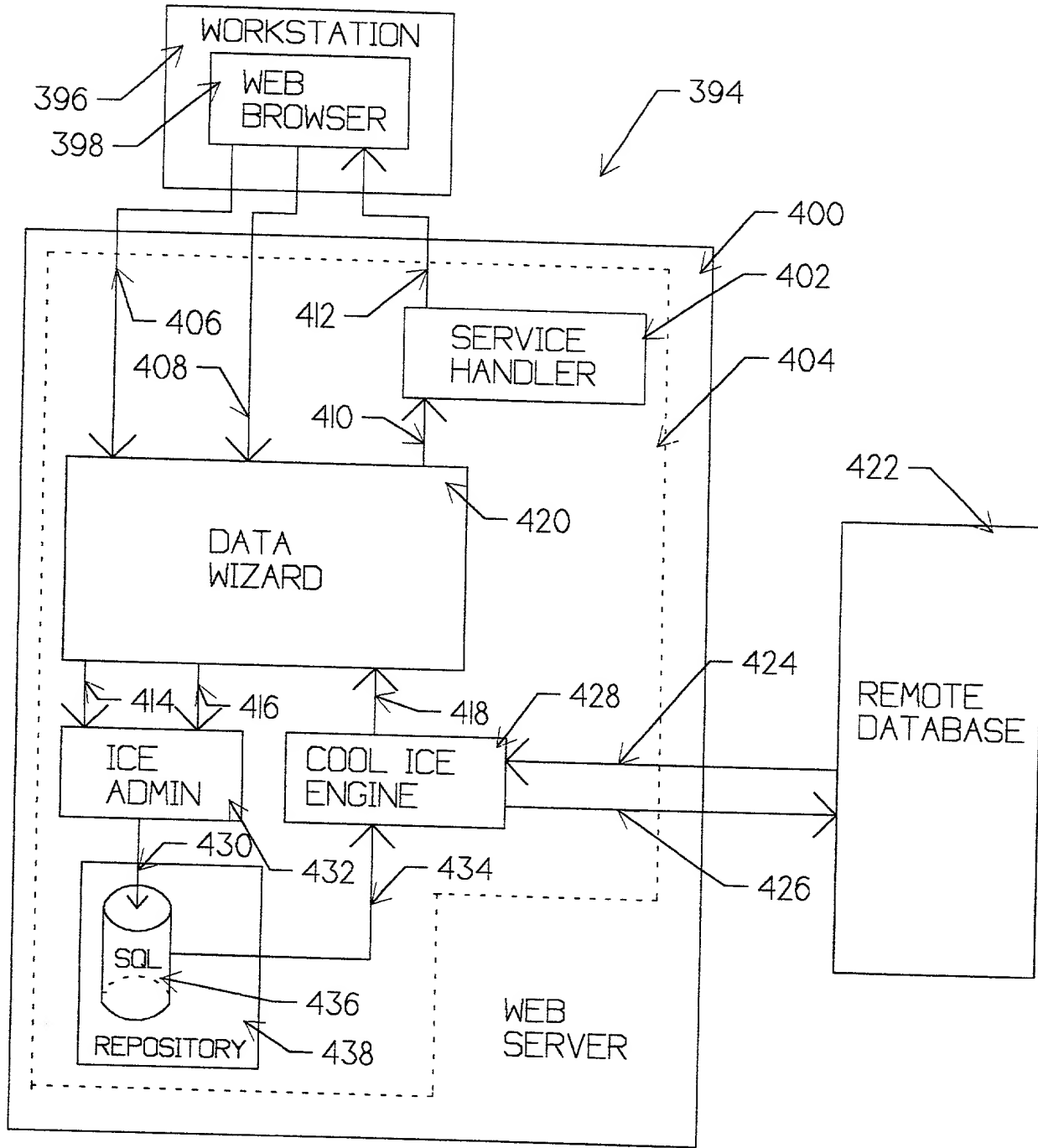


FIG. 14

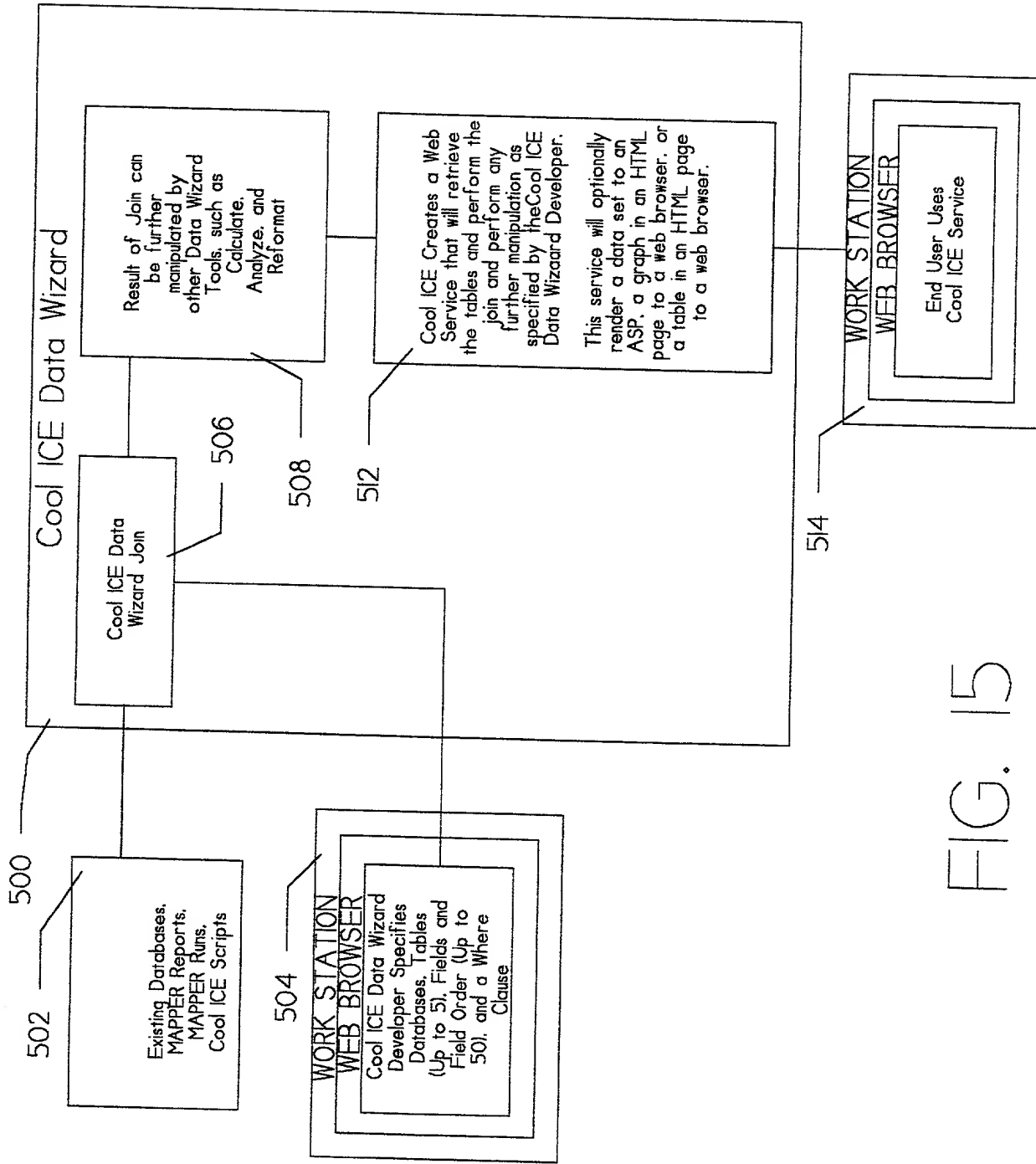
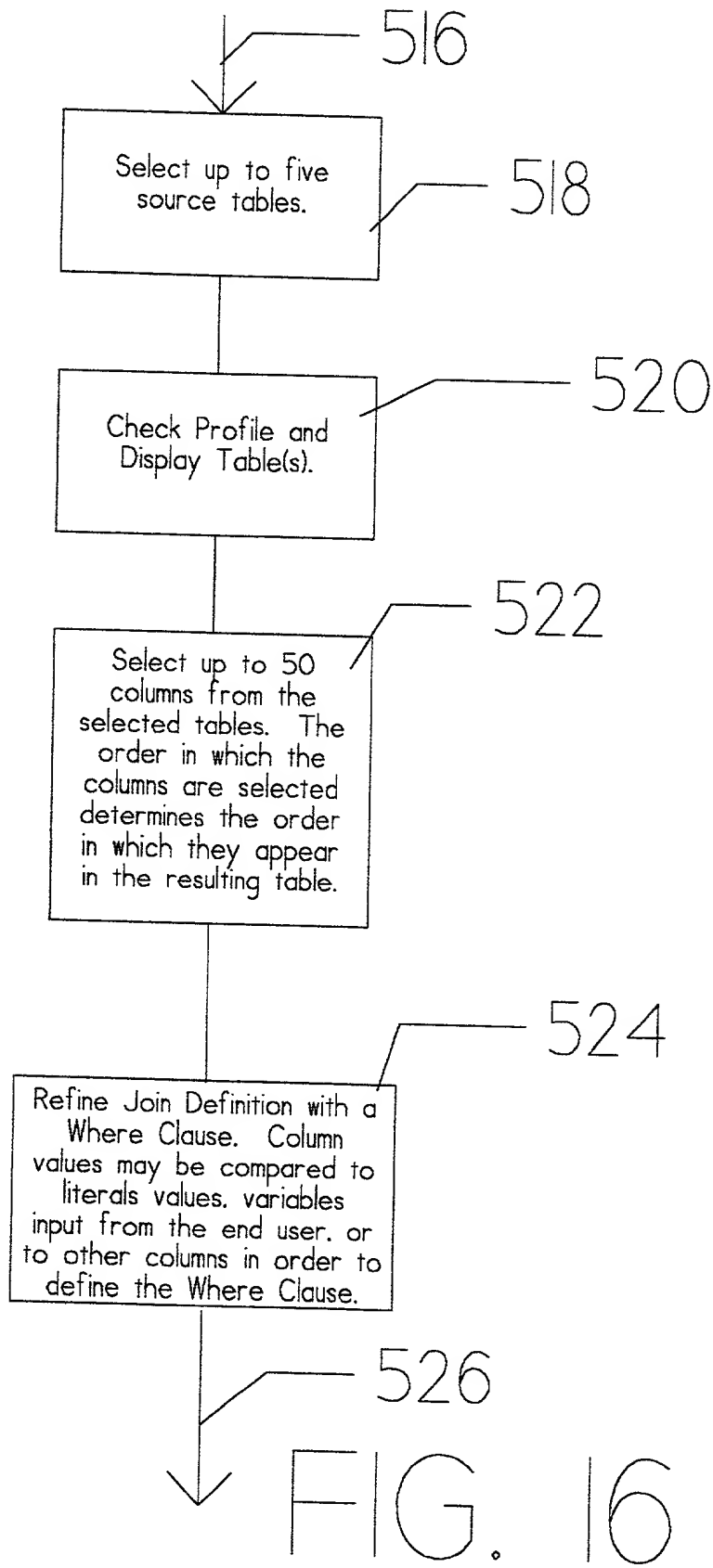


FIG. 15



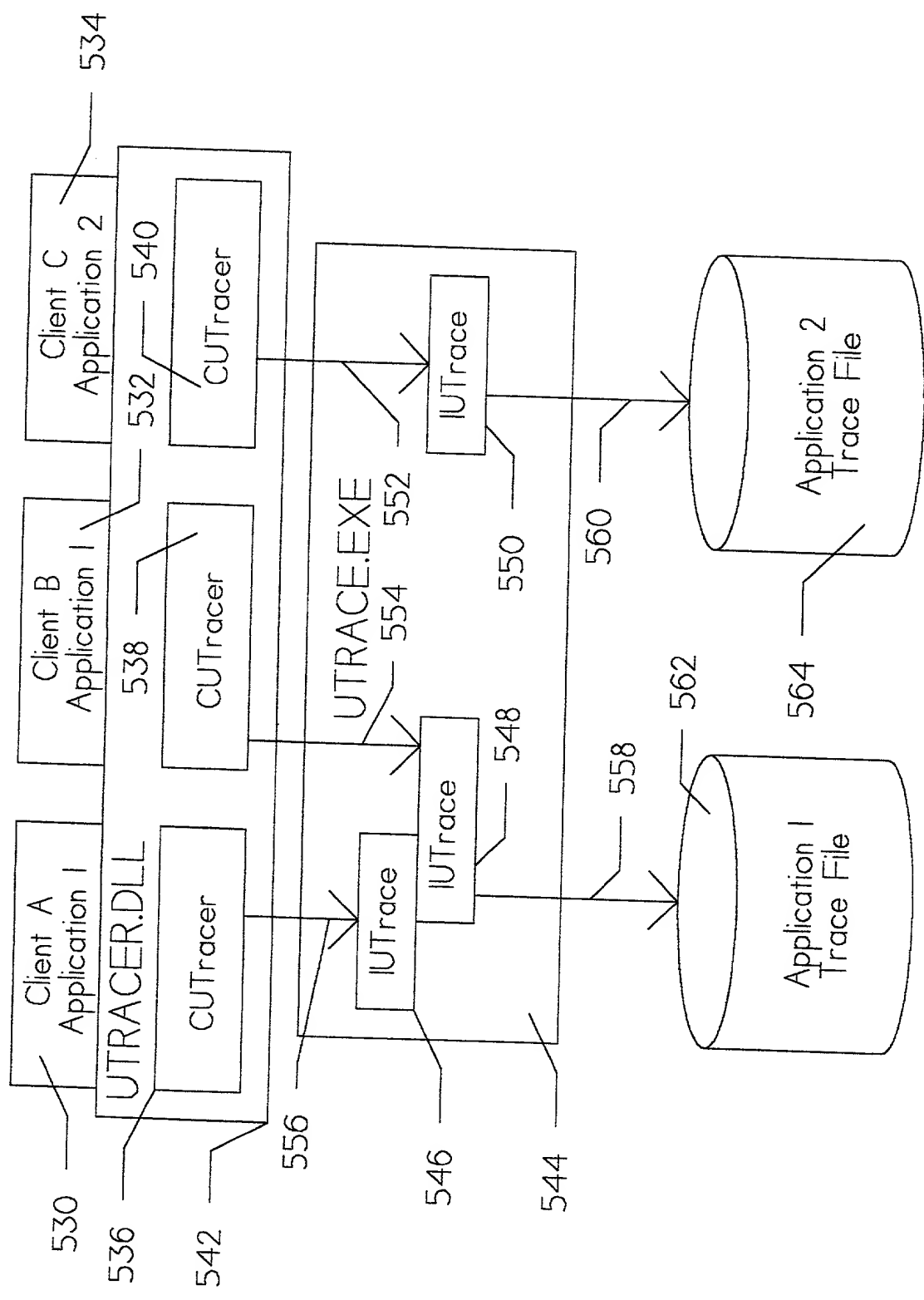


FIG. 17

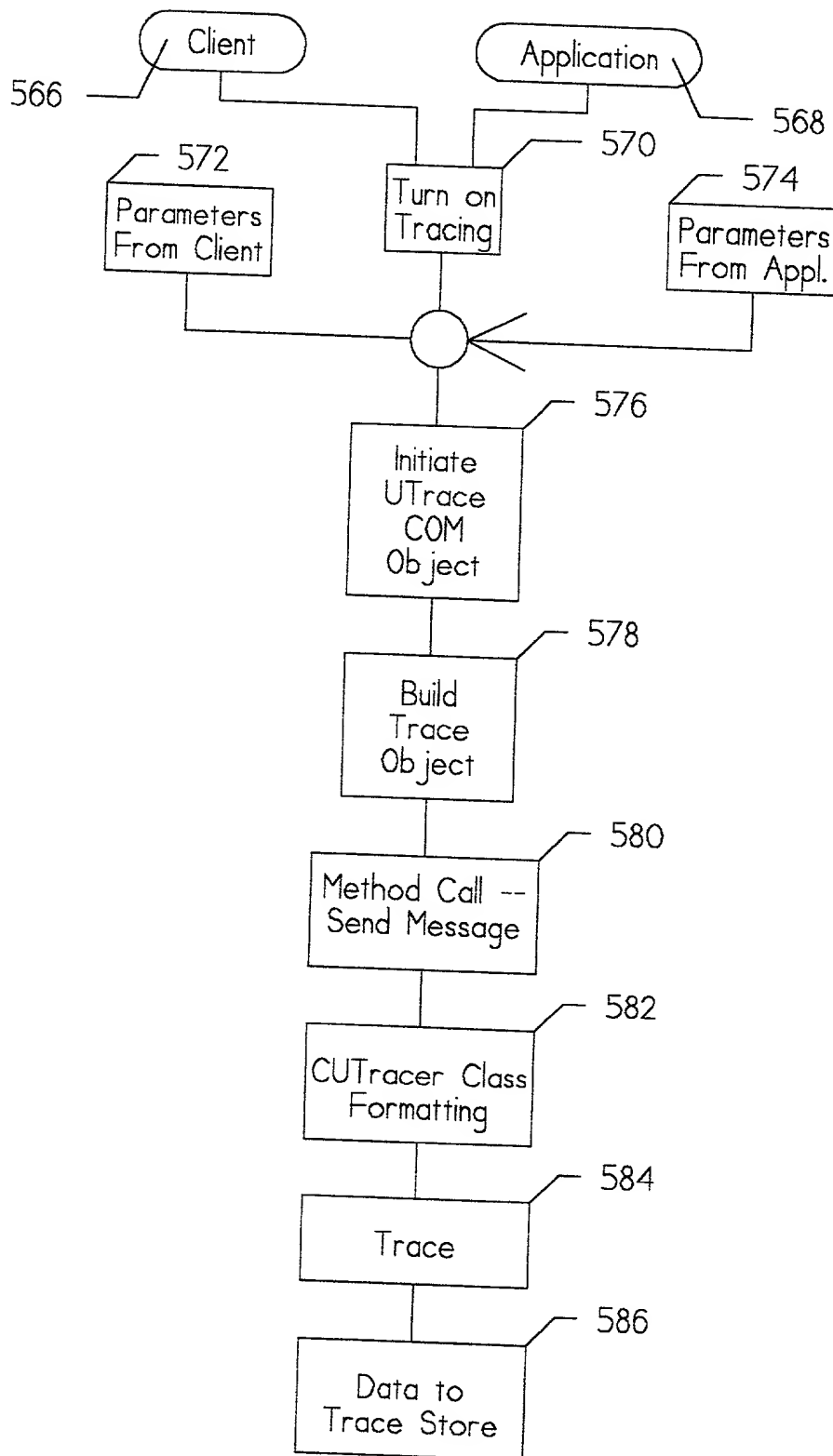


FIG. 19

```
#define CI_TRACE_VERSION      0x1
#define CI_TRACE_ERROR        0x2
#define CI_TRACE_INTERFACE    0x4
#define CI_TRACE_FLOW         0x8
#define CI_TRACE_DETAIL       0x10
```

FIG. 20A

```
if (m_trace.Active(CI_TRACE_DETAIL))
m_trace<<"MY Detailed Trace information"<<Localvariable<<traceit
```

FIG. 20B

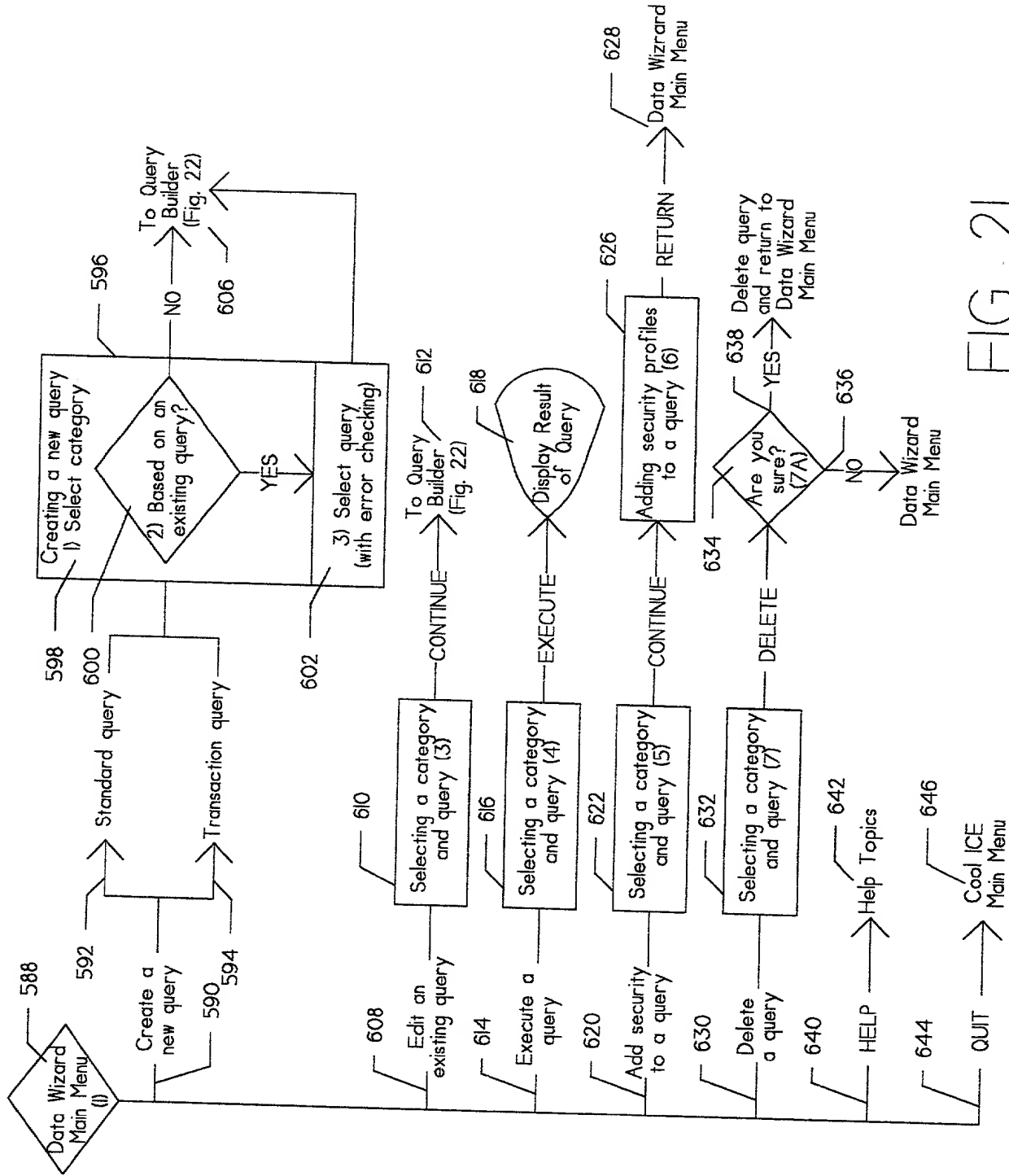


FIG. 21

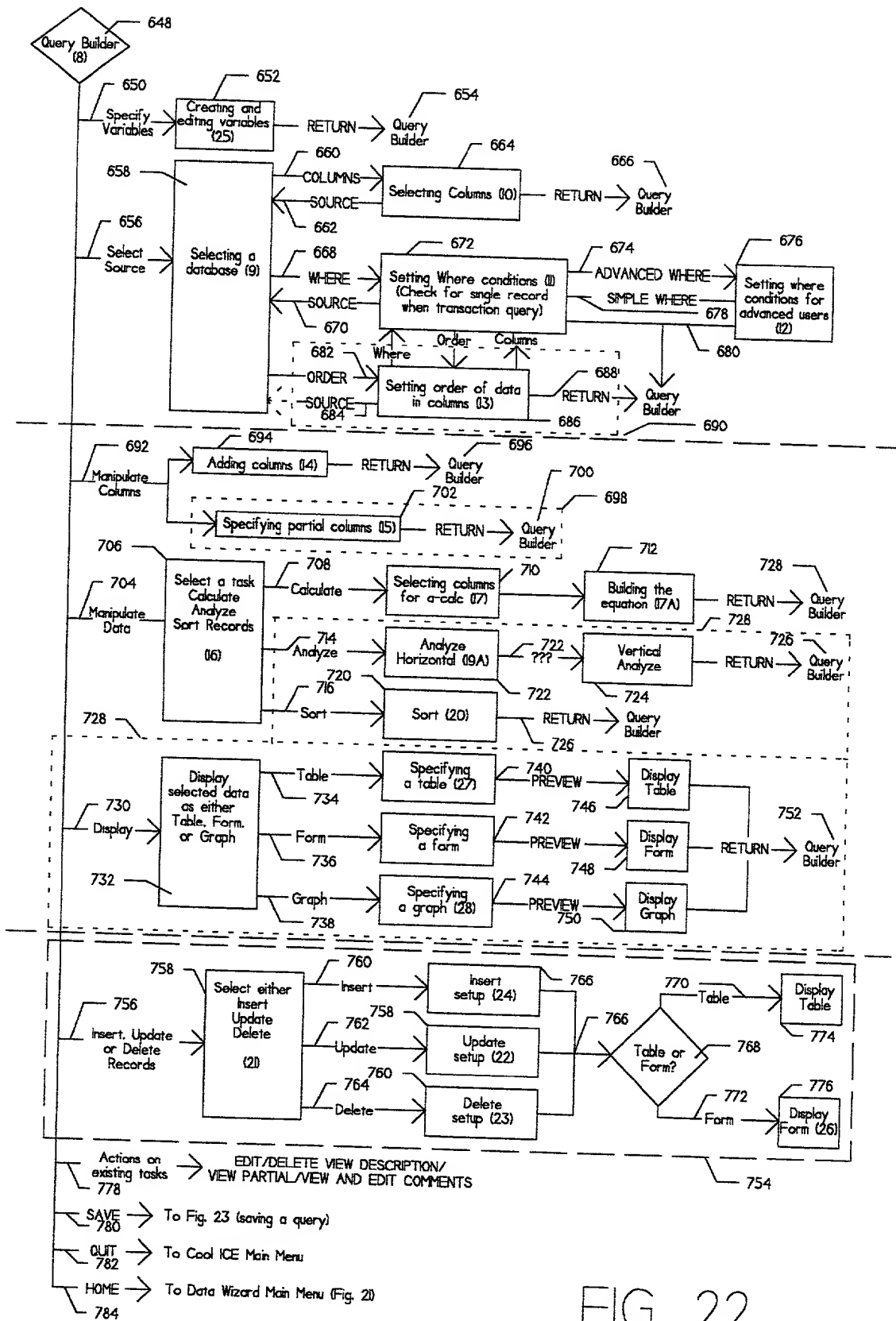


FIG. 22

11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

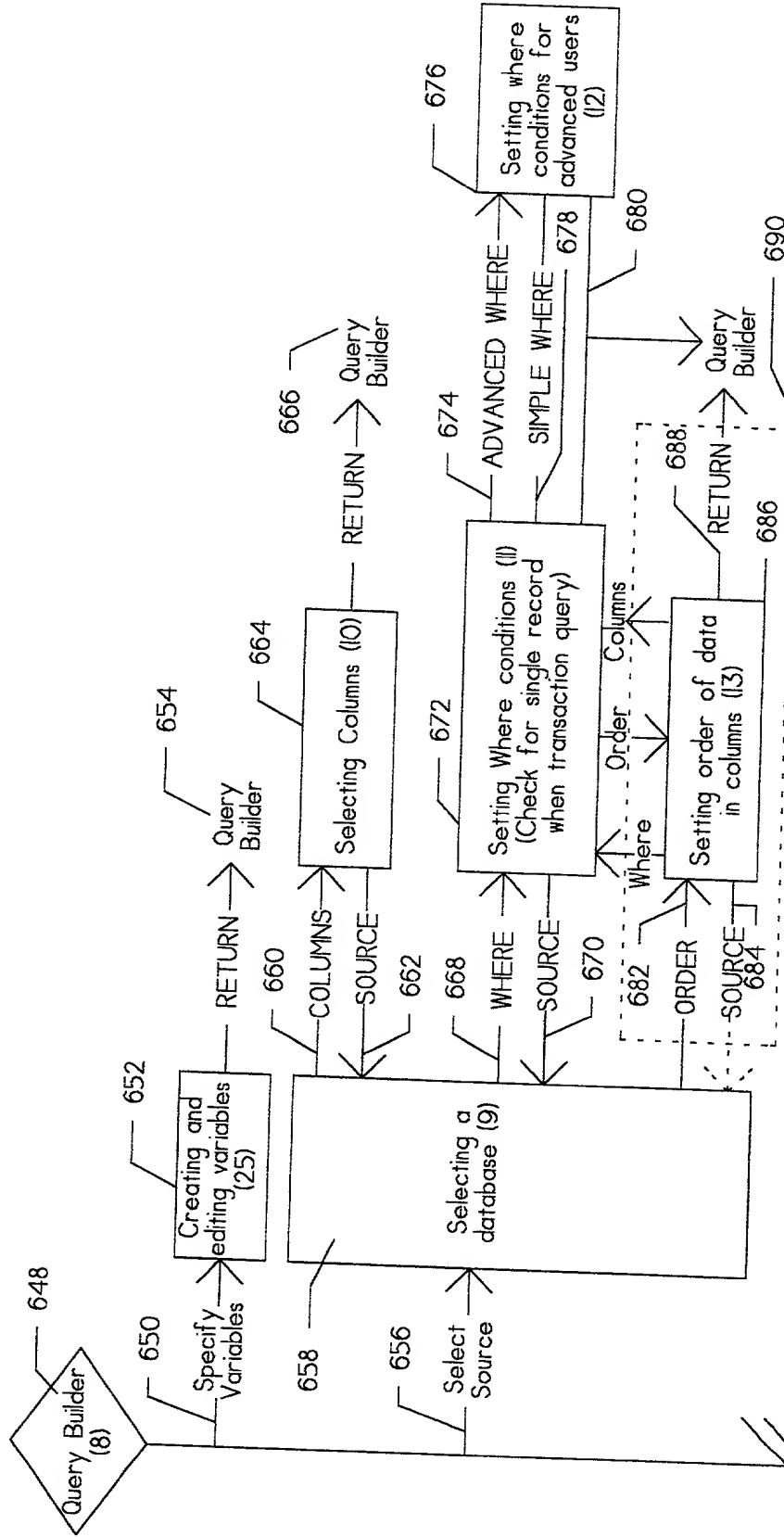
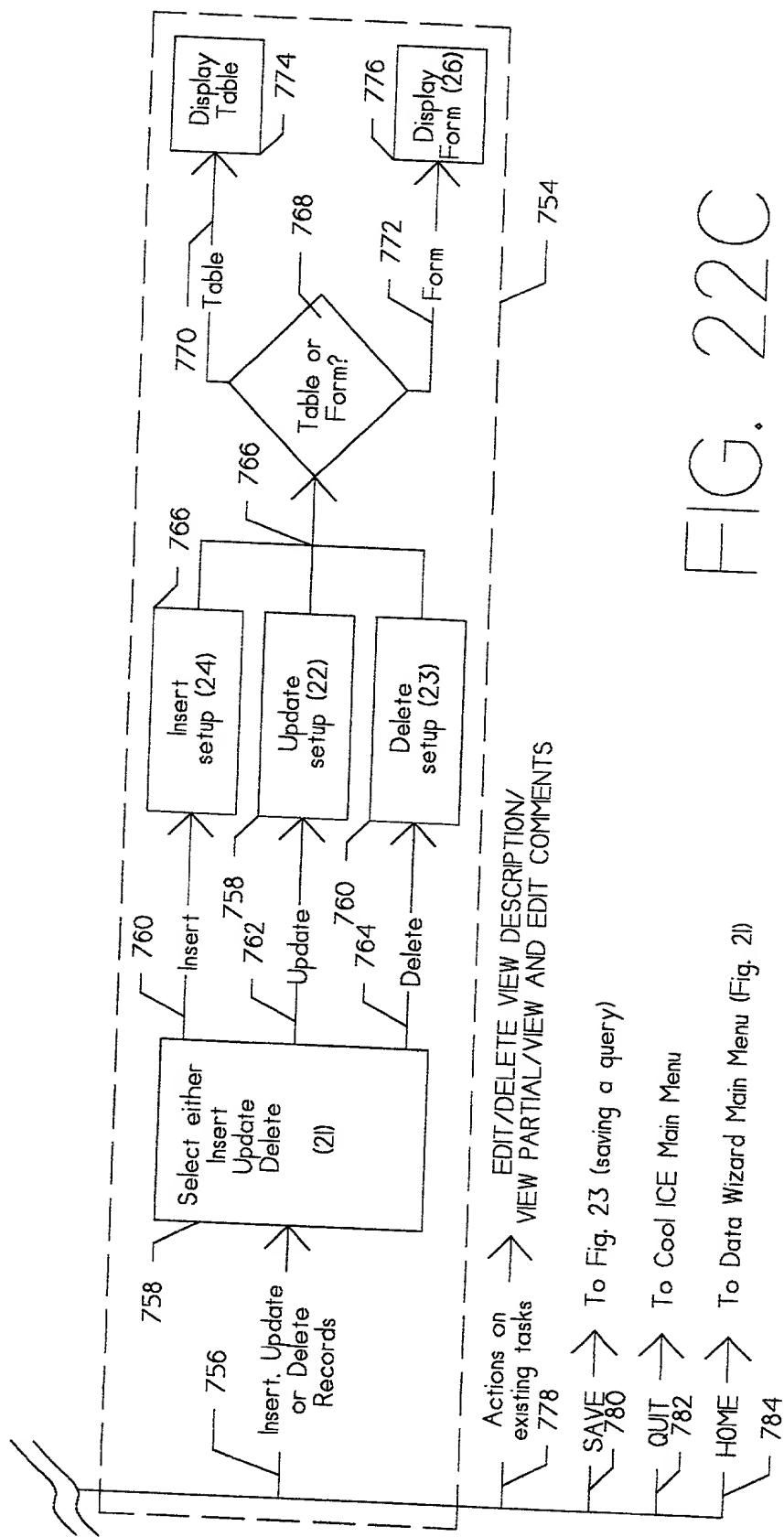
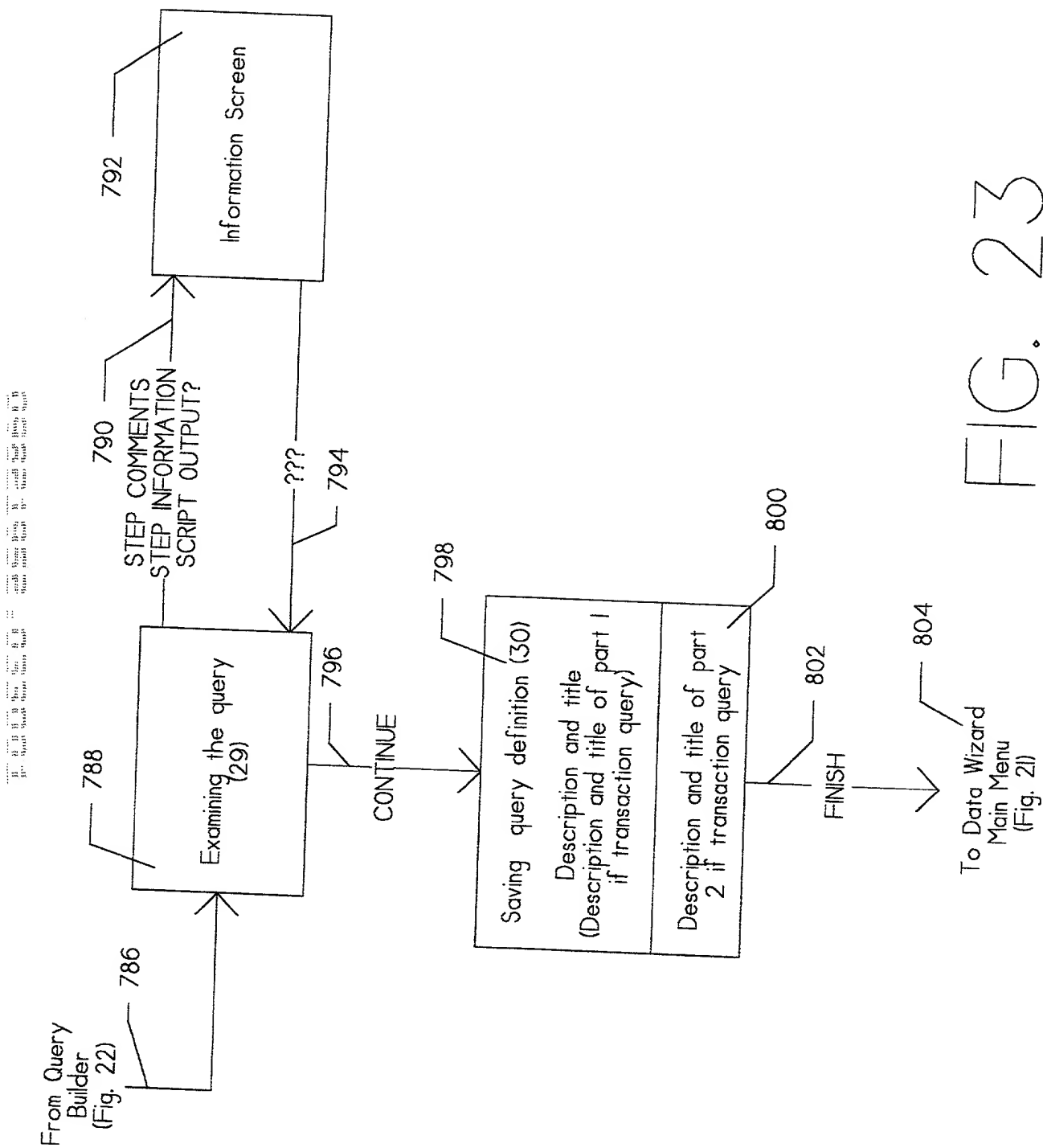


FIG. 22A





10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

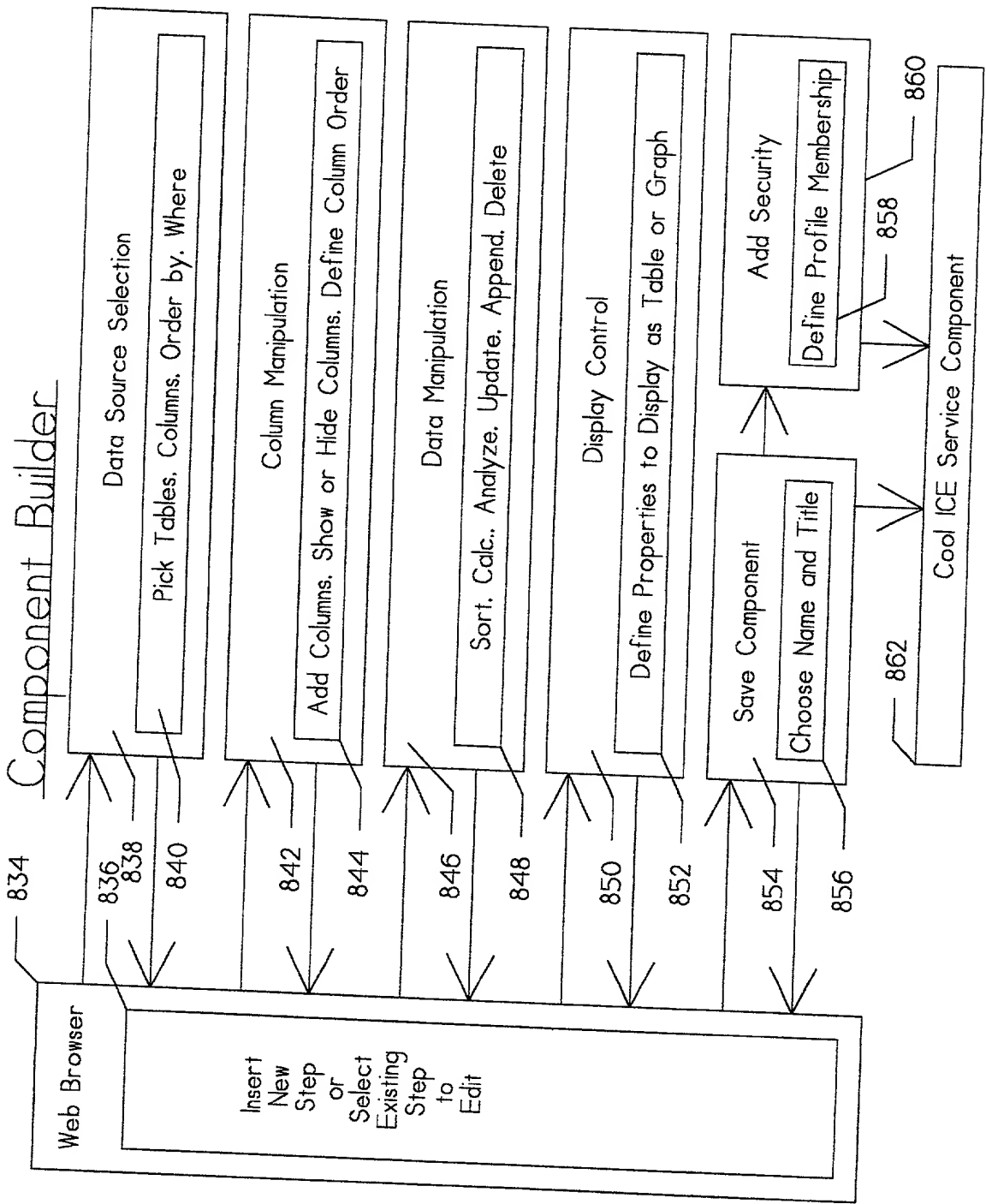


FIG. 25

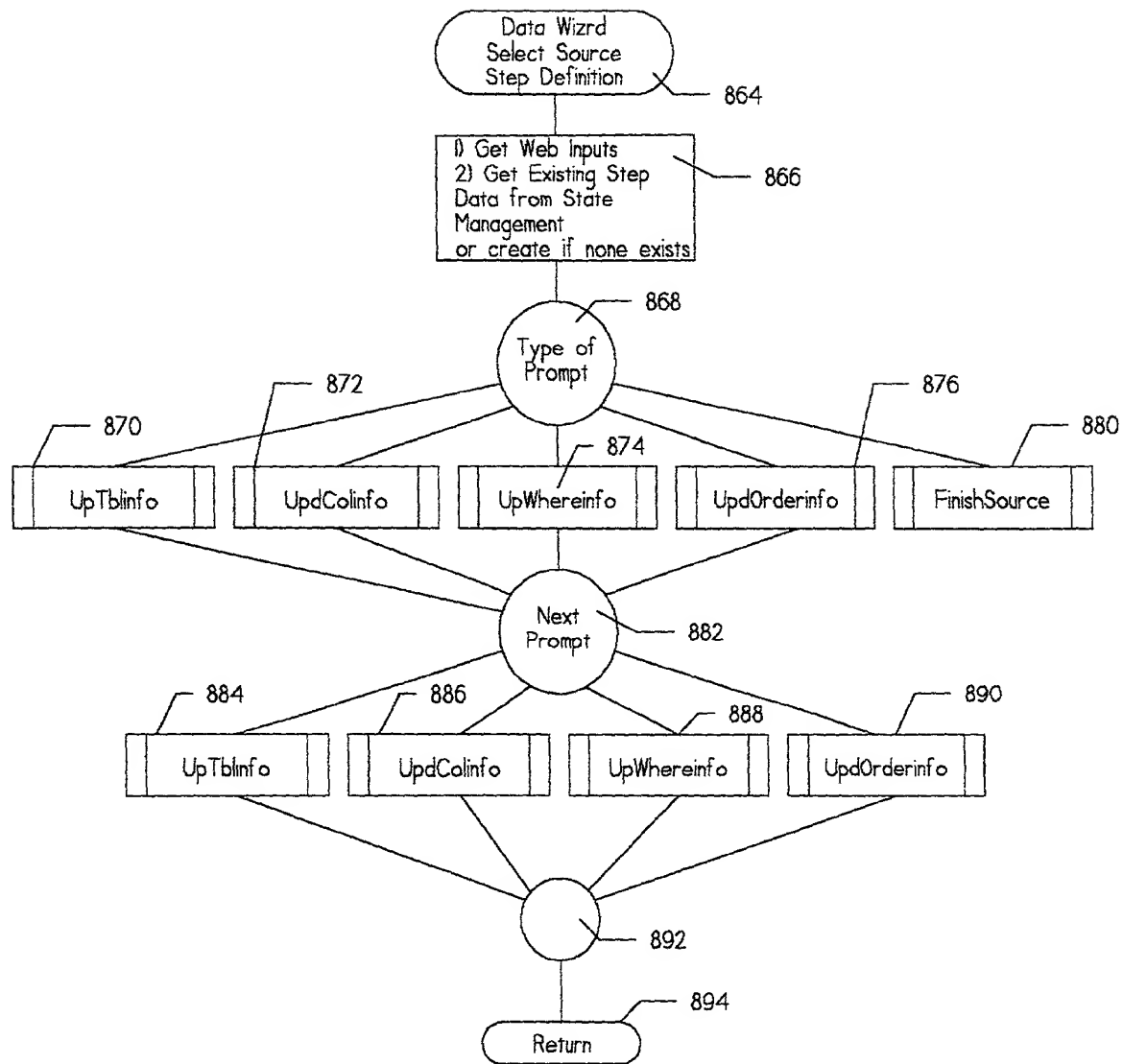


FIG. 26

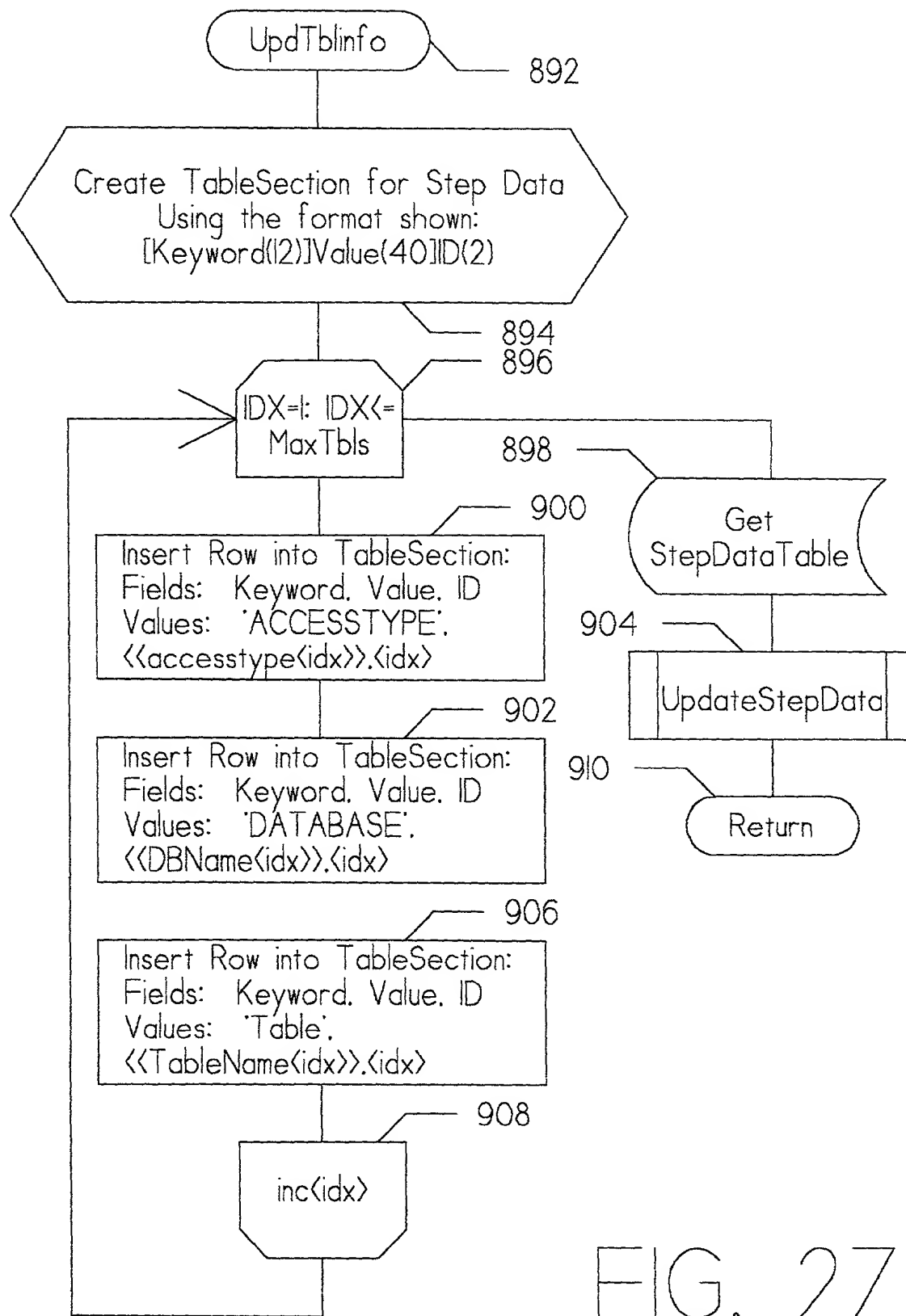


FIG. 27

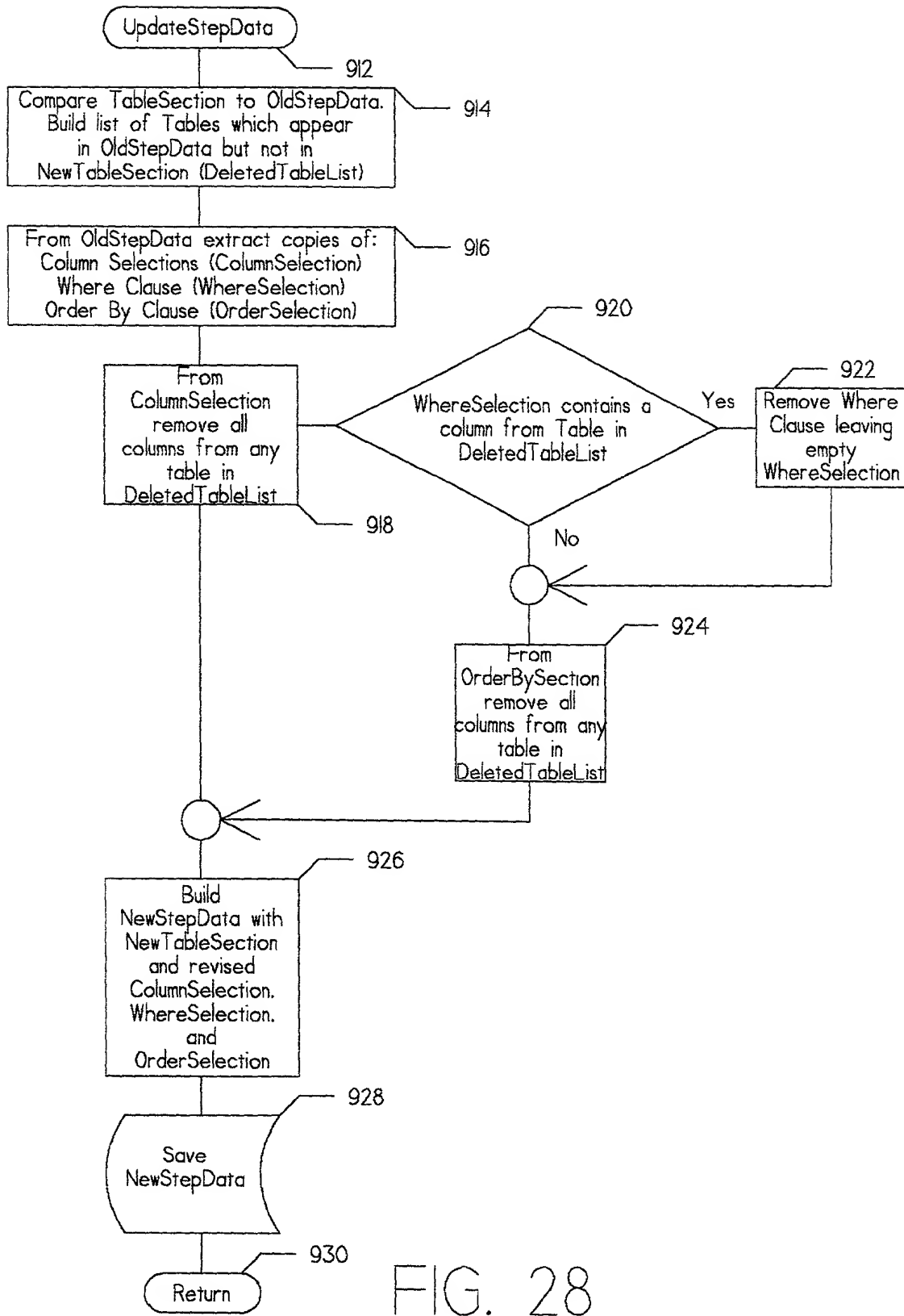
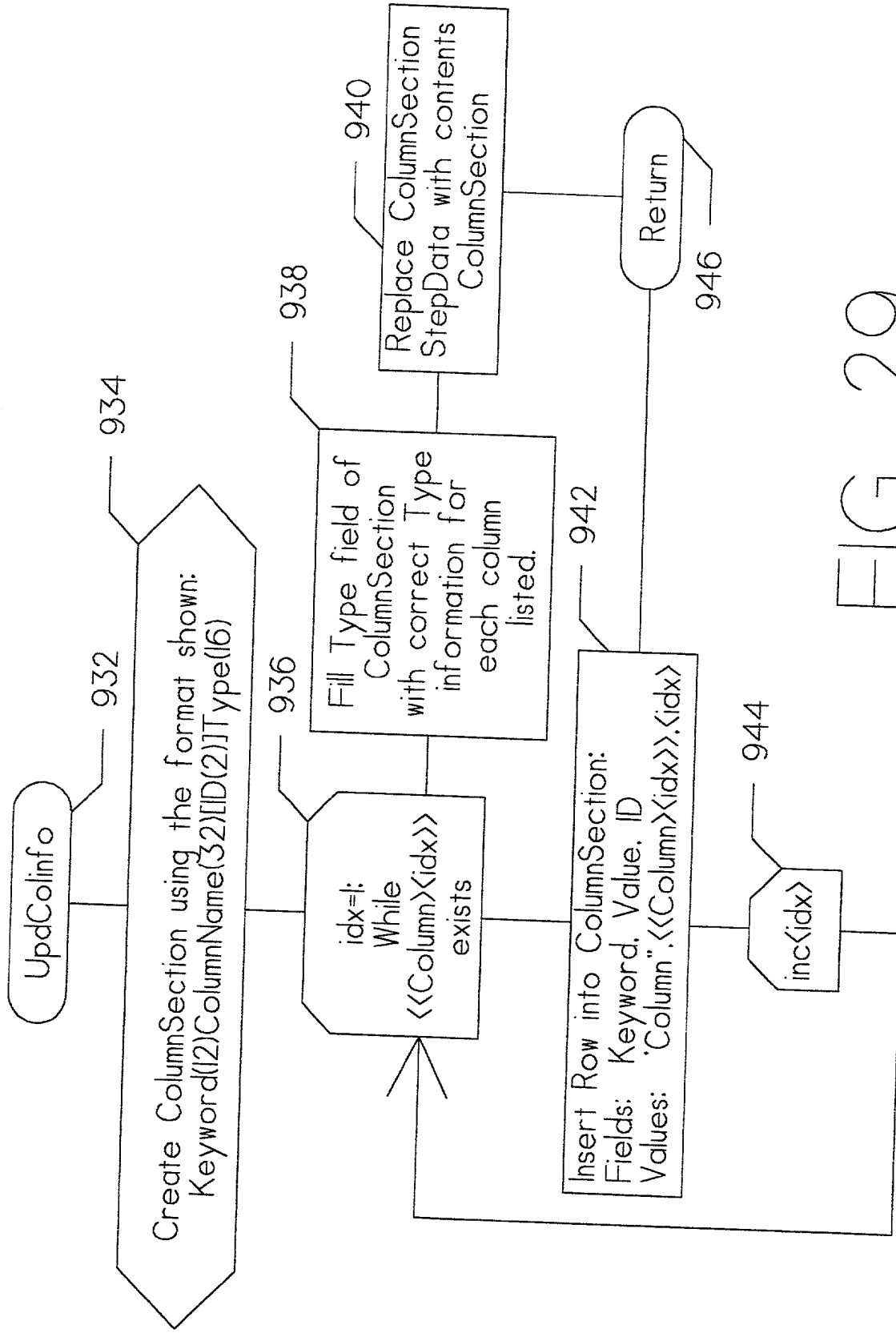


FIG. 28



29. G. H.

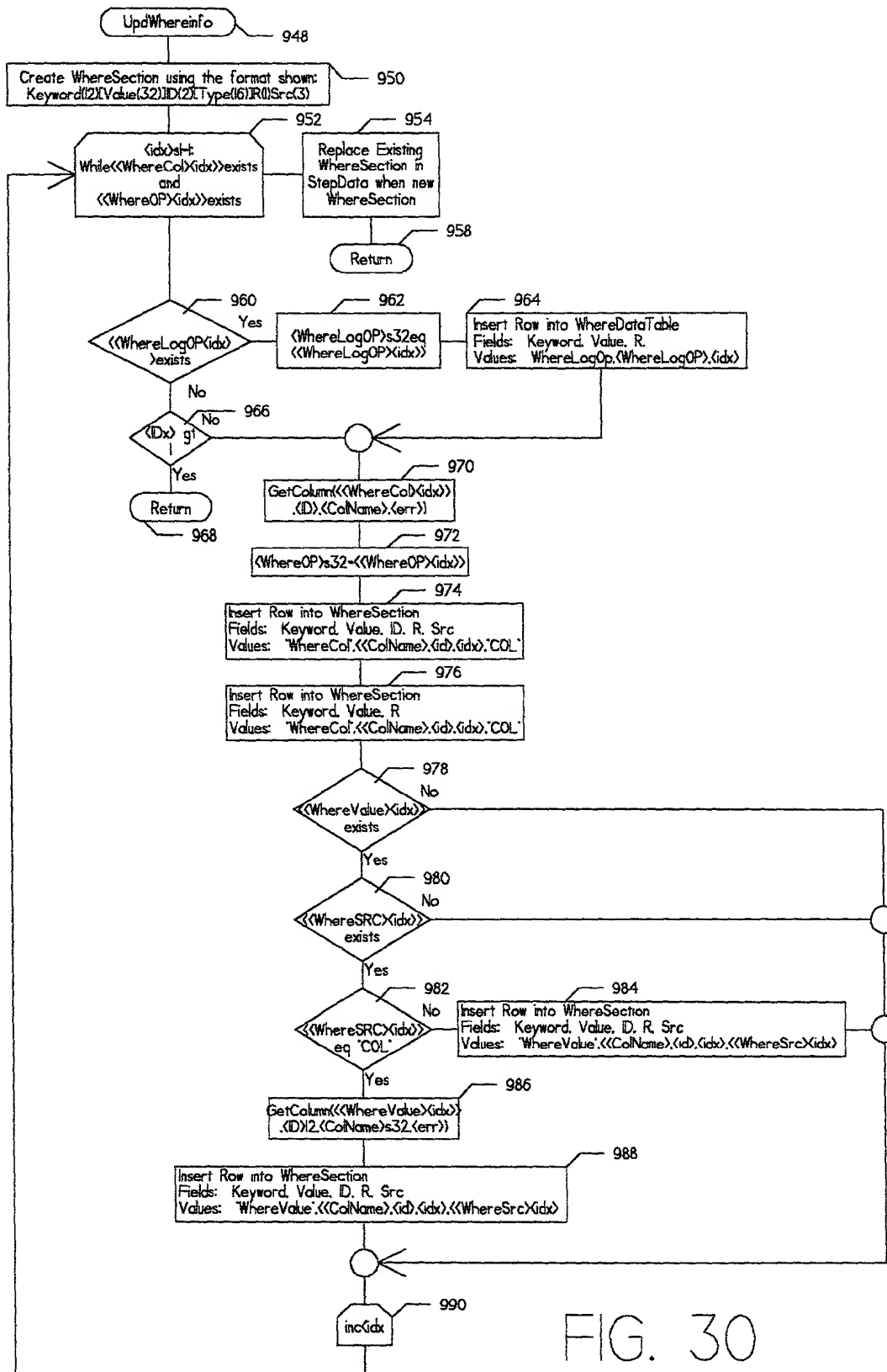


FIG. 30

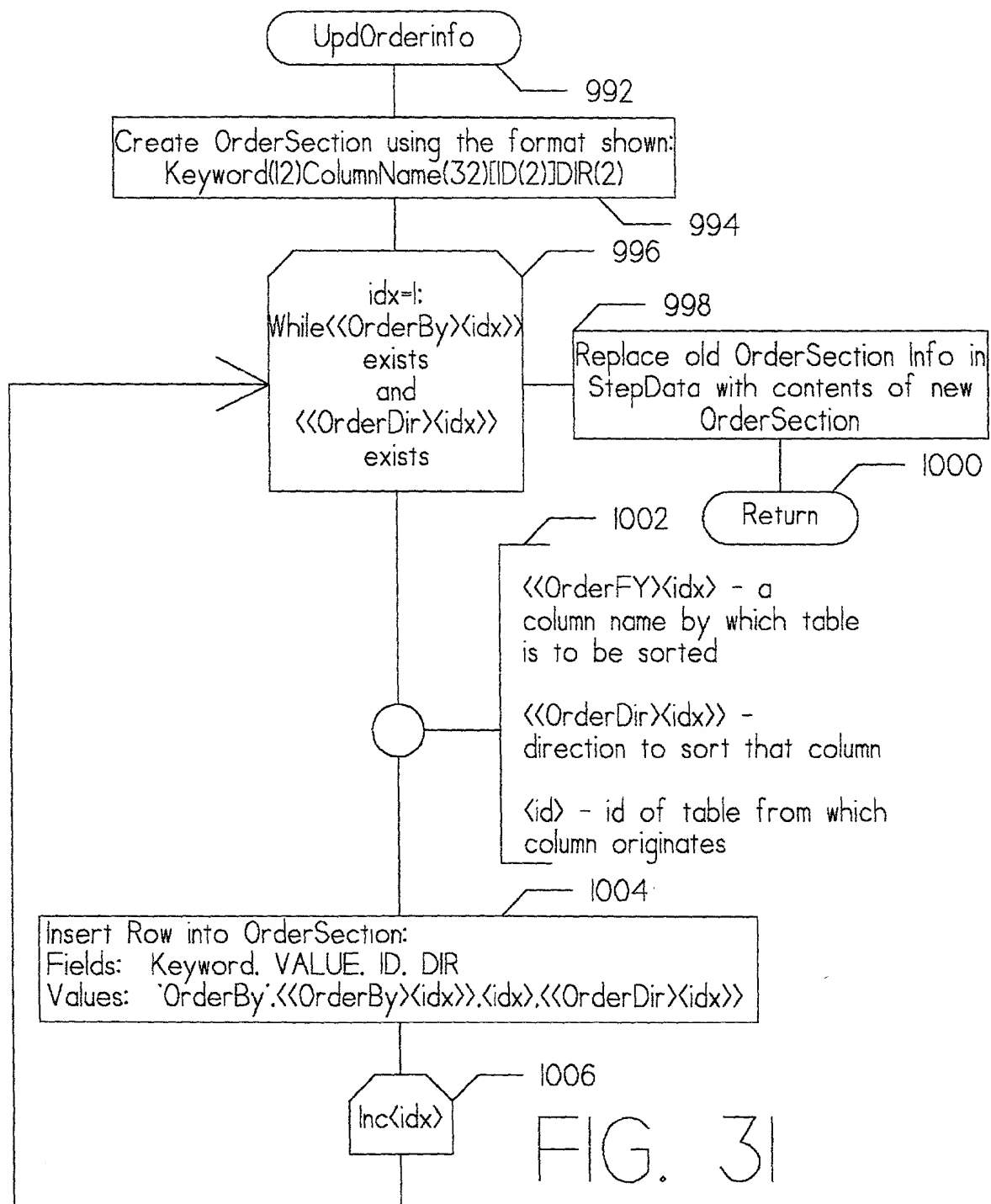
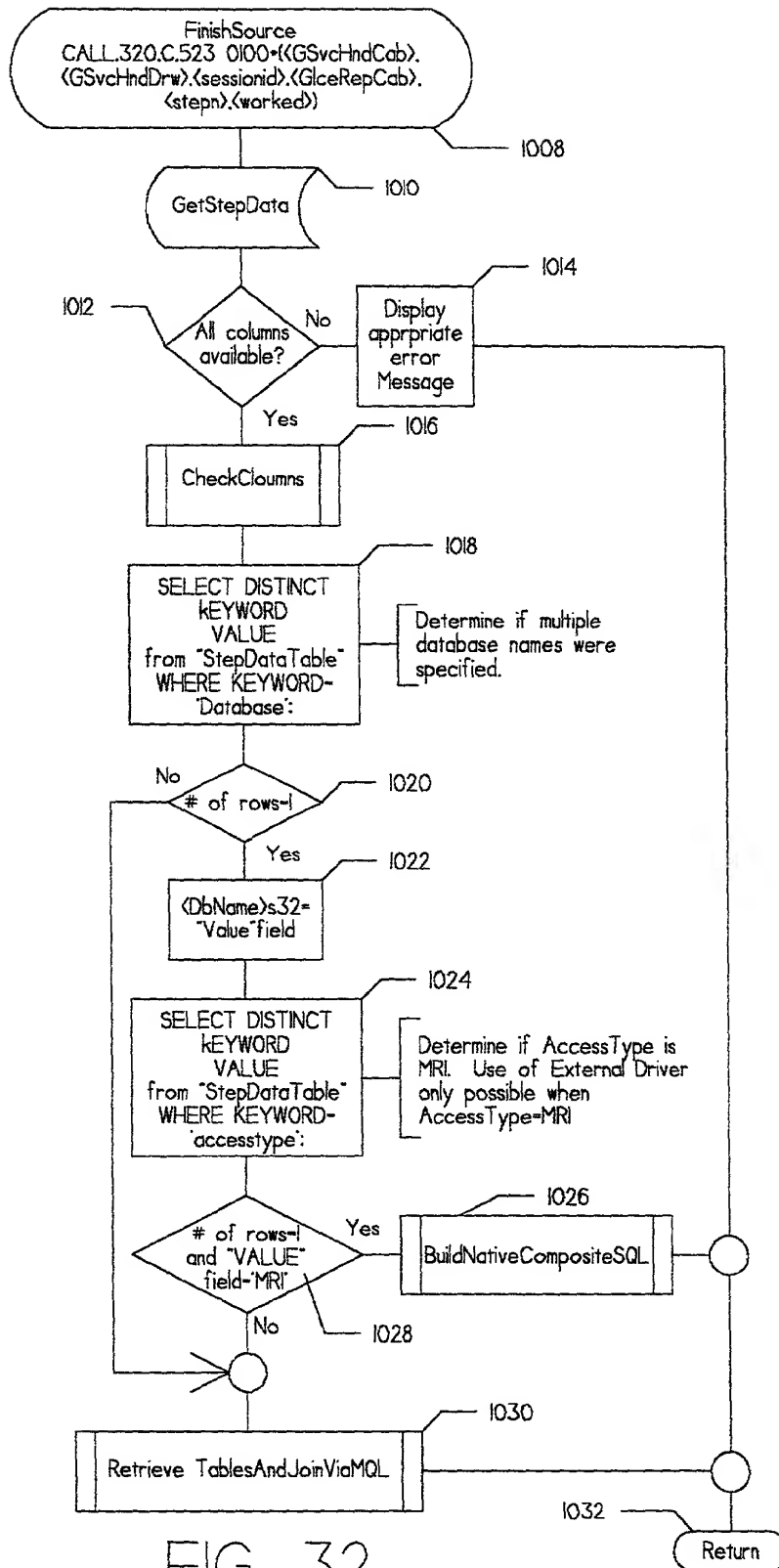


FIG. 31



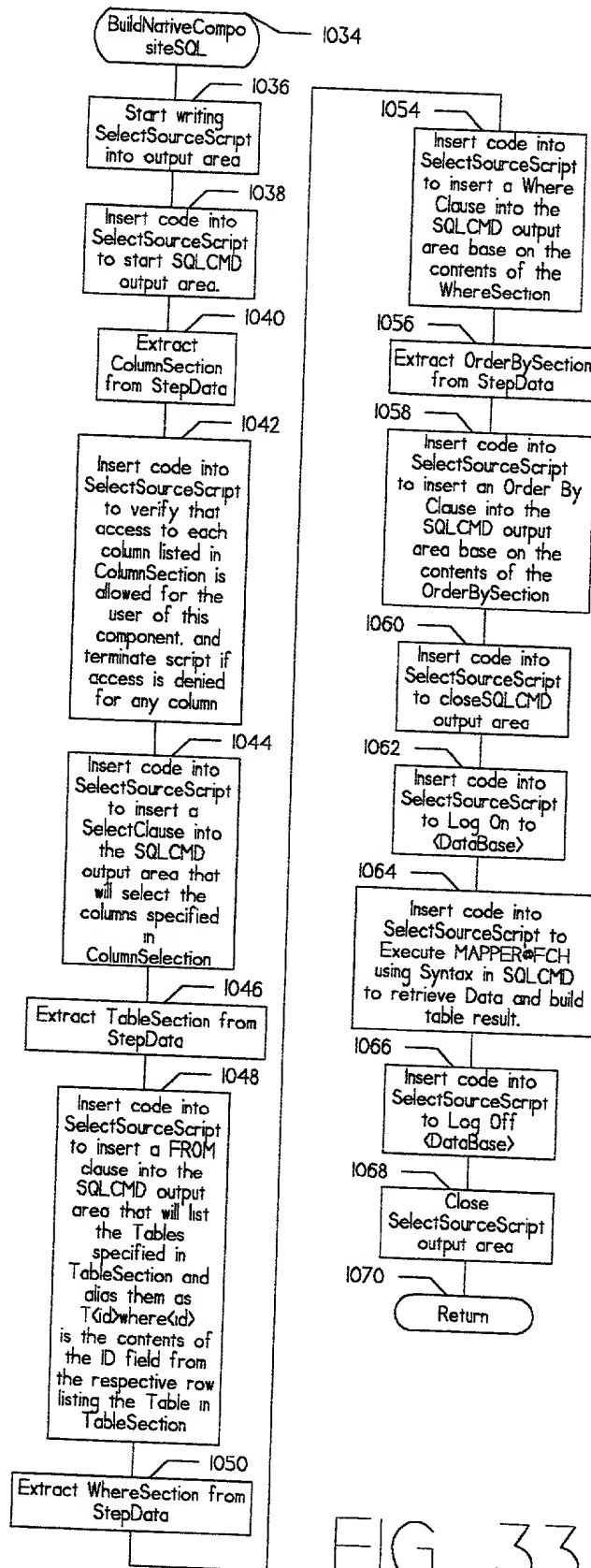


FIG. 33

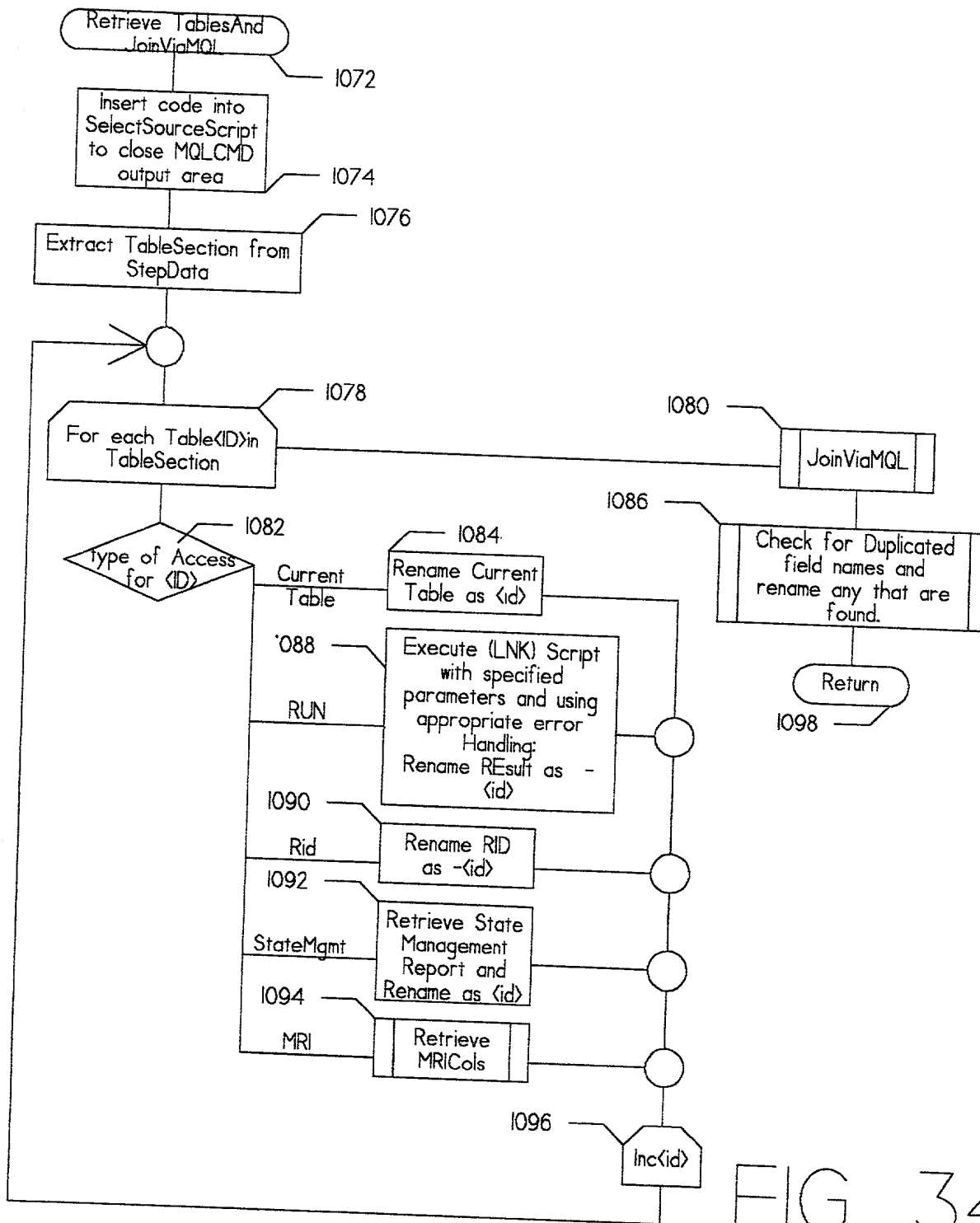
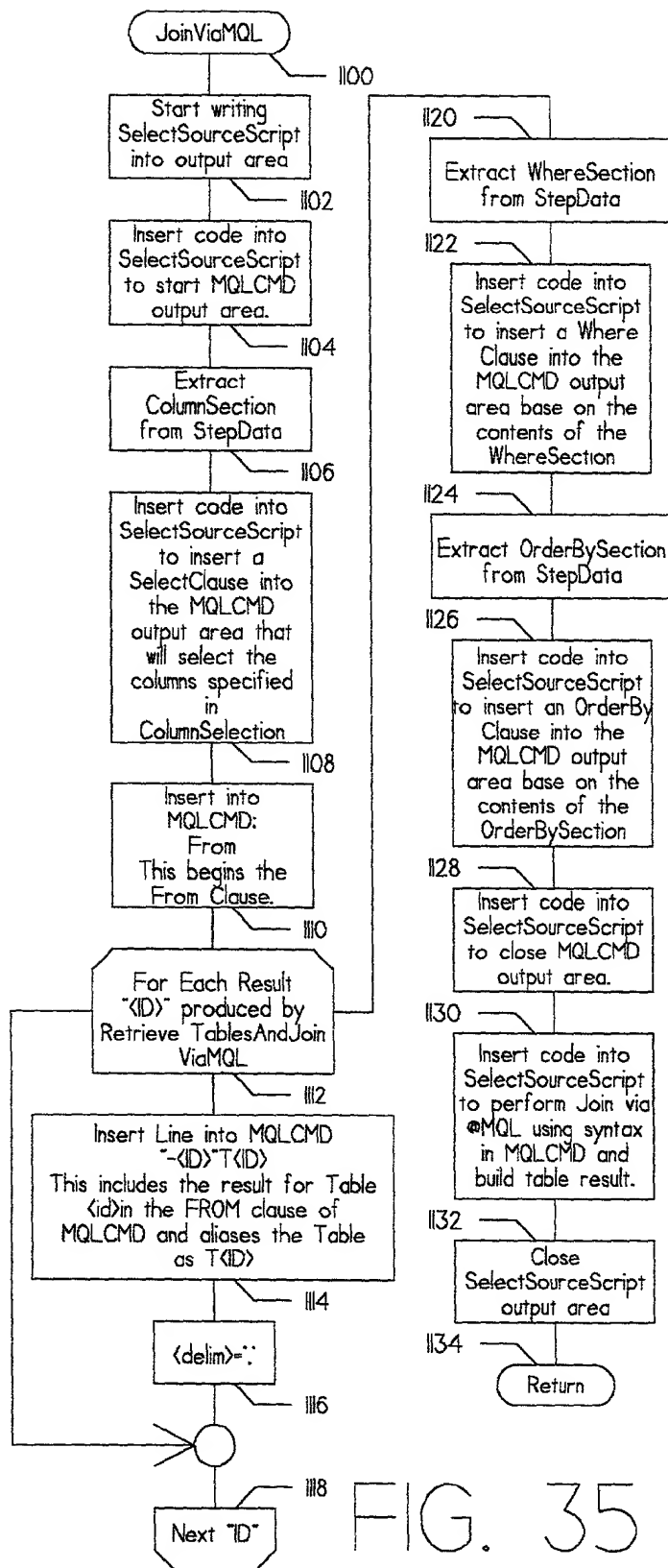


FIG. 34



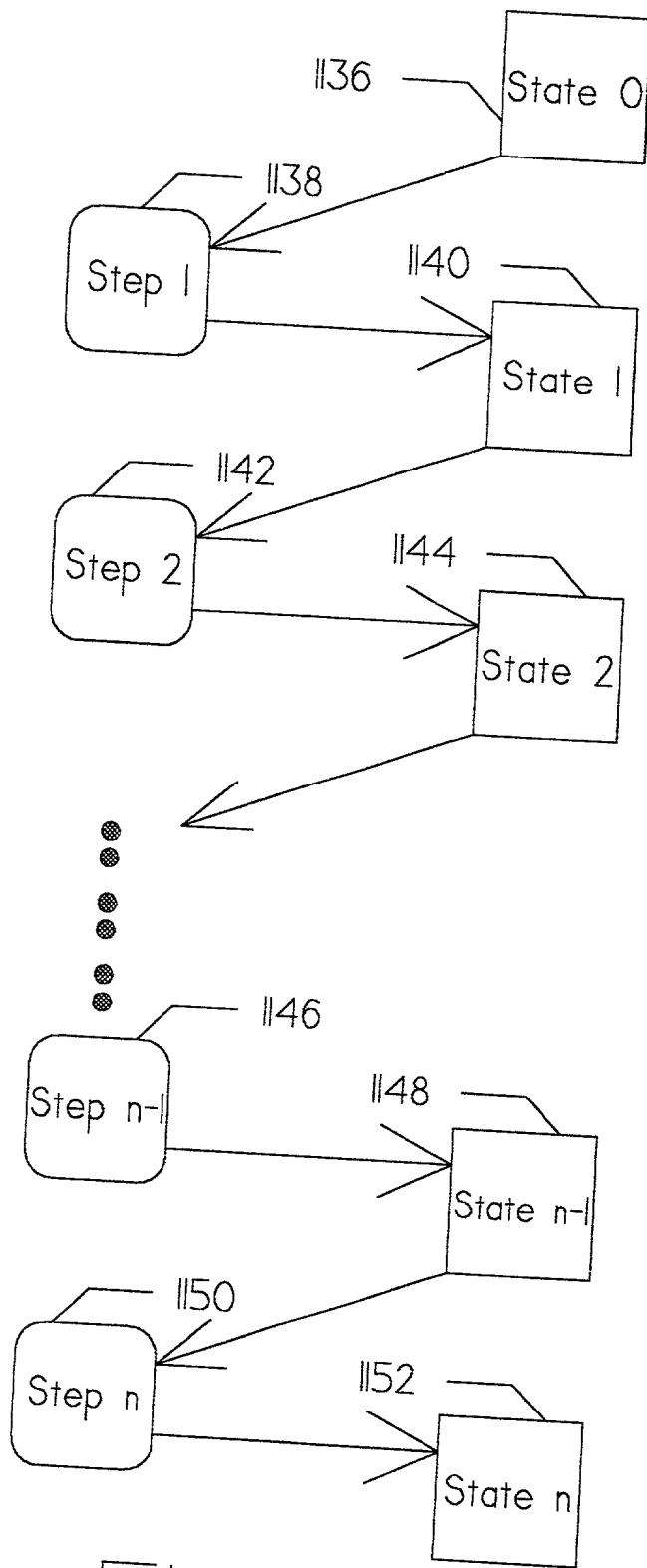


FIG. 36